SERFF Tracking #: HART-132214506 State Tracking #:

Company Tracking #: FN.02.503.2020.01

State: District of Columbia Filing Company: Sentinel Insurance Company, Ltd.

TOI/Sub-TOI: 20.0 Commercial Auto/20.0000 Commercial Auto Combinations

Product Name: CA 2020 - Sentinel Rate Revision **Project Name/Number:** Commercial Auto /FN.02.503.2020.01

Filing at a Glance

Company: Sentinel Insurance Company, Ltd.
Product Name: CA 2020 - Sentinel Rate Revision

State: District of Columbia
TOI: 20.0 Commercial Auto

Sub-TOI: 20.0000 Commercial Auto Combinations

Filing Type: Rate

Date Submitted: 01/14/2020

SERFF Tr Num: HART-132214506 SERFF Status: Submitted to State

State Tr Num:

State Status:

Co Tr Num: FN.02.503.2020.01

Effective Date 01/18/2020

Requested (New):

Effective Date 01/18/2020

Requested (Renewal):

Author(s): Robin Rose, Desiree Dupree, Brenda Clapper

Reviewer(s):

Disposition Date:
Disposition Status:
Effective Date (New):
Effective Date (Renewal):

SERFF Tracking #: HART-132214506 State Tracking #: Company Tracking #: FN.02.503.2020.01

State: District of Columbia Filing Company: Sentinel Insurance Company, Ltd.

TOI/Sub-TOI: 20.0 Commercial Auto/20.0000 Commercial Auto Combinations

Product Name: CA 2020 - Sentinel Rate Revision **Project Name/Number:** Commercial Auto /FN.02.503.2020.01

General Information

Project Name: Commercial Auto

Status of Filing in Domicile:

Project Number: FN.02.503.2020.01

Domicile Status Comments:

Reference Organization: ISO Reference Number: CA-2018-IALL1 ~ CA-2019-BRLA1
Reference Title: DC REVISION OF COMMERCIAL AUTO Advisory Org. Circular: LI-CA-2018-150 ~ LI-CA-2019-173

LIABILITY INCREASED LIMIT AND DEDUCTIBLE DISCOUNT FACTORS TO BE IMPLEMENTED ~ DC

REVISED COMMERCIAL AUTO ADVISORY PROSPECTIVE LOSS COSTS, INCLUDING NONOWNERSHIP LIABILITY

COMPANY ACTION BLOCK UPDATED Filing Status Changed: 01/14/2020

State Status Changed: Deemer Date:

Created By: Brenda Clapper Submitted By: Brenda Clapper

Corresponding Filing Tracking Number:

Filing Description:

This filing proposes to revise Commercial Auto base rates to produce an average premium level impact of +6.1% effective 1/18/2020.

This filing proposes to:

- ~ Implement new Loss Cost Multipliers.
- ~ Implements new Loss Cost Multipliers to produce revised base rates
- ~ Adopt ISO Liability Deductible Factors from CA-2018-IALL1
- ~ Revise Publics Bus Not Otherwise Classified Classification Factors
- ~ Revise Employed Non-Owned Liability (ENOL) base rates

Company and Contact

Filing Contact Information

Brenda Clapper, Senior Product Consultant brenda.clapper@thehartford.com

One Hartford Plaza 860-547-6383 [Phone] T-9 860-547-5941 [FAX]

Hartford, CT 06155

Filing Company Information

Sentinel Insurance Company, Ltd. CoCode: 11000 State of Domicile: Connecticut Hartford Plaza Group Code: 91 Company Type: Property

Hartford, CT 06155 Group Name: The Hartford Ins. State ID Number:

(860) 547-5000 ext. [Phone] Group

FEIN Number: 06-1552103

Filing Fees

Fee Required? No Retaliatory? No

Fee Explanation:

SERFF Tracking #: HART-132214506 State Tracking #: Company Tracking #: FN.02.503.2020.01

State: District of Columbia Filing Company: Sentinel Insurance Company, Ltd.

TOI/Sub-TOI: 20.0 Commercial Auto/20.0000 Commercial Auto Combinations

Product Name:CA 2020 - Sentinel Rate RevisionProject Name/Number:Commercial Auto /FN.02.503.2020.01

Correspondence Summary

Amendments

Schedule	Schedule Item Name	Created By	Created On	Date Submitted
Rate	40. PUBLIC AUTO CLASSIFICATIONS	Brenda Clapper	01/16/2020	01/16/2020

 SERFF Tracking #:
 HART-132214506
 State Tracking #:
 Company Tracking #:
 FN.02.503.2020.01

State: District of Columbia Filing Company: Sentinel Insurance Company, Ltd.

TOI/Sub-TOI: 20.0 Commercial Auto/20.0000 Commercial Auto Combinations

Product Name:CA 2020 - Sentinel Rate RevisionProject Name/Number:Commercial Auto /FN.02.503.2020.01

Amendment Letter

Submitted Date: 01/16/2020

Comments:

Per the Actuarial Memo we have attached the Revised Rule page for our Bus Not Otherwise Classified Classification Factors.

Thank You,

Changed Items:

No Form Schedule Items Changed.

Rate S	Rate Schedule Item Changes										
Item				Previous State Filing Number							
No.	Exhibit Name	Rule # or Page #	Rate Action		Date Submitted						

No Supporting Documents Changed.

SERFF Tracking #: HART-132214506 State Tracking #: Company Tracking #: FN.02.503.2020.01

State: District of Columbia Filing Company: Sentinel Insurance Company, Ltd.

TOI/Sub-TOI: 20.0 Commercial Auto/20.0000 Commercial Auto Combinations

Product Name:CA 2020 - Sentinel Rate RevisionProject Name/Number:Commercial Auto /FN.02.503.2020.01

Rate Information

Rate data applies to filing.

Filing Method: File & Use

Rate Change Type: Increase

Overall Percentage of Last Rate Revision: 6.200%

Effective Date of Last Rate Revision: 01/12/2019

Filing Method of Last Filing: File & Use

SERFF Tracking Number of Last Filing:

Company Rate Information

	Overall %	Overall %	Written Premium	Number of Policy	Written	Maximum %	Minimum %
Company	Indicated	Rate	Change for	Holders Affected	Premium for	Change	Change
Name:	Change:	Impact:	this Program:	for this Program:	this Program:	(where req'd):	(where req'd):
Sentinel Insurance Company, Ltd.	21.900%	6.100%	\$19,443	65	\$318,745	50.000%	2.700%

SERFF Tracking #: HART-132214506 State Tracking #: Company Tracking #: FN.02.503.2020.01

State: District of Columbia Filing Company: Sentinel Insurance Company, Ltd.

TOI/Sub-TOI: 20.0 Commercial Auto/20.0000 Commercial Auto Combinations

Product Name:CA 2020 - Sentinel Rate RevisionProject Name/Number:Commercial Auto /FN.02.503.2020.01

Rate/Rule Schedule

Item	Schedule Item				Previous State	
No.	Status	Exhibit Name	Rule # or Page #	Rate Action	Filing Number	Attachments
1		Sentinel Rate Pages	CA-HR-1 thru CA-HR-26	Replacement		SIC Rate Pages.pdf
2		40. PUBLIC AUTO CLASSIFICATIONS	RU_4.40_CA-DC-2020-RU- 501	Replacement		RU_4.40_CA-DC-2020-RU- 501.pdf

8. POLICY WRITING MINIMUM PREMIUM

A. Prepaid Policies \$250

B. Annual Premium Payment \$250 Plan Policies or

Continuous Policies

9. ADDITIONAL PREMIUM CHANGES

B. Waive additional premium of \$15 or less.

10. RETURN PREMIUM CHANGES

B. Waive return premium of \$15 or less.

CA-HR-1 EDITION: 01/2020

23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS

23. IKUC	KS, TRACTORS A	ND IRAIL	LEKS CLASSIFIC	CATIONS		2000141 1211151	DDOTECTION				
	LIABILITY				PEF	RSONAL INJURY	PROTECTION				
	Subline Code (611) Limits Identifier Code					Subline Code	e (615)				
	(1) 100,000 Liability		Income Benefits								
	Limit	Incl	udes Replaceme	nt Services		Funeral Bene	efits		Medical Bene	fits	
Terr. Codes	Limit Code 10	Limit	Not covered by Workers Compensation	Covered by Workers Compensation	Limit	Not covered by Workers Compensation	Covered by Workers Compensation	Limit	Not covered by Workers Compensation	Covered by Workers Compensation	
001	1808	\$12,000	32	12	\$4,000	5	2	\$50,000	73	28	
		\$24,000	66	27				\$100,000	78	32	

For liability increased limits factors, refer to Rule 100.

For liability fleet factors, refer to Rule 22.

For Madical Payments, refer to Rile 92, as applicable.

CA-HR-2 EDITION: 01/2020

23. TRUCKS, TRACTORS AND TRAILERS CLASSIFICATIONS
NOT USED IN DUMPING OPERATIONS
LOCAL AND INTERMEDIATE-ALL VEHICLES
LONG DISTANCE-LIGHT TRUCKS AND TRAILERS USED WITH LIGHT TRUCKS

Subline Code (618)

PHYSICAL DAMAGE OCN \$15,001-20,000

	Specified Causes of Loss	Coverage Comprehensive	\$500 Deductible Collision		Specified Causes of Loss	Coverage Comprehensive	\$500 Deductible Collision		Specified Causes of Loss	Coverage Comprehensive	\$500 Deductible Collision
	(020)	Coverage Code (726)	(077)		(020)	Coverage Code (726)	(077)		(020)	Coverage Code (726)	(077)
Territory	()	\ -7	(- /	Territory	(/		(- /	Territory	(= -/		(- /
001	107	150	341	Territory				Territory			

For physical damage fleet factors, refer to Rule 22.

For additional coverages, refer to the Additional Coverages table for Rule 23.

For deductible factors, refer to Rule 98.

For OCN and Age Group factors, refer to Rule 101.

For trucks and trailers used in dumping operations and all truck-tractors, multiply the collision premium by 1.25.

For stated Amount factors, refer to Rule 101.

CA-HR-3 EDITION: 01/2020

Legal Liability Rates for Physical Damage To Trailers Under A Trailer Interchange Agreement

Daily Per Trailer Base Rates

24. TRUCKERS/MOTOR CARRIERS

			Le	egal Liability	For Physic			s Under A T Base Rates		change Agre	ement				
			Local			Intermediate				Long Distance					
Limit of	No Ded Comp or Specified		Collision Dedu	ctibles		No Ded Comp or Specified		Collision I	Deductibles	:	No Ded Comp or Specified	Collision Deductibles			
Liability	Causes of Loss	\$100	\$250	\$500	\$1,000	Causes of Loss	\$100	\$250	\$500	\$1,000	Causes of Loss	\$100	\$250	\$500	\$1,000
\$1,000	.008	.106	.055	.044	.027	.015	.169	.091	.070	.042	.023	.262	.138	.109	.065
2,000	.015	.114	.065	.052	.034	.023	.188	.107	.086	.052	.035	.289	.164	.133	.082
3,000	.018	.126	.077	.062	.039	.029	.205	.122	.099	.064	.047	.315	.190	.154	.097
4,000	.023	.136	.086	.070	.047	.037	.220	.139	.114	.074	.057	.339	.213	.176	.114
5,000	.029	.146	.096	.081	.052	.044	.237	.154	.129	.086	.069	.366	.238	.200	.129
6,000	.032	.156	.106	.091	.059	.052	.253	.173	.146	.096	.079	.393	.263	.223	.148
7,000	.037	.168	.114	.099	.065	.060	.272	.188	.159	.106	.092	.418	.289	.247	.163
8,000	.042	.178	.126	.107	.070	.067	.290	.203	.173	.116	.104	.445	.312	.268	.180
9,000	.047	.188	.136	.116	.077	.074	.305	.220	.190	.128	.114	.470	.337	.290	.195
10,000	.050	.198	.146	.126	.086	.082	.322	.235	.205	.138	.126	.495	.362	.315	.213
11,000	.055	.210	.154	.136	.092	.089	.339	.253	.220	.149	.136	.522	.388	.337	.228
12,000	.060	.220	.166	.144	.097	.097	.356	.270	.235	.159	.149	.549	.414	.361	.245
13,000	.064	.230	.176	.154	.104	.104	.374	.285	.250	.169	.159	.575	.438	.383	.260
14,000	.069	.240	.186	.163	.111	.111	.389	.300	.263	.180	.171	.599	.463	.406	.277
15,000	.072	.250	.195	.173	.117	.119	.408	.317	.278	.191	.183	.626	.488	.429	.294
16,000	.079	.260	.205	.181	.124	.126	.424	.334	.294	.201	.195	.653	.513	.451	.310
17,000	.082	.272	.216	.191	.129	.134	.441	.349	.310	.213	.206	.678	.537	.476	.325
18,000	.087	.282	.225	.198	.136	.141	.458	.366	.324	.223	.218	.705	.562	.497	.342
19,000	.092	.290	.235	.208	.143	.149	.473	.381	.337	.232	.228	.730	.587	.520	.357
20,000	.096	.302	.245	.216	.151	.156	.492	.398	.352	.243	.240	.755	.612	.544	.374
				Addition	nal Charges	s Added For	r Every \$1,	000 Liabilit	y In Excess	Of \$20,000					
	\$.003	.012	.010	.010	.007	\$.007	.017	.015	.015	.012	\$.012	.027	.025	.023	.017

Table 24.B.2.b.(2)(b) Trailer Interchange Agreement Base Rates

Liability Minimum Premium \$30

Table 24.C.2.b.(5) Cost Of Hire Basis Liability Minimum Premium

CA-HR-4 EDITION: 01/2020

25. PREMIUM DEVELOPMENT - ZONE-RATED AUTOS

Zone-Rating Table - Zone 02 (Baltimore/Washington) Combinations \$500 \$500 \$500												
				\$500	\$500	\$500						
			\$100,000	Medical	Deductible	Deductible						
Zone	Description	Code	Liability	Payments	Collision	Comprehensive						
01	Atlanta	401	2469	84	597	226						
02	Baltimore/Washington	402	2407	82	580	240						
03	Boston	403	2337	79	513	226						
04	Buffalo	404	2407	82	580	240						
05	Charlotte	405	2469	84	597	226						
06	Chicago	406	2288	77	528	208						
07	Cincinnati	407	2288	77	528	208						
08	Cleveland	408	2288	77	528	208						
09	Dallas/Fort Worth	409	3201	109	812	226						
10	Denver	410	2815	96	565	284						
11	Detroit	411	2288	77	528	208						
12	Hartford	412	2337	79	513	226						
13	Houston	413	3201	109	812	226						
14	Indianapolis	414	2288	77	528	208						
15	Jacksonville	415	2469	84	597	226						
16	Kansas City	416	2335	79	510	235						
17	Little Rock	417	3201	109	812	226						
18	Los Angeles	418	3364	114	768	300						
19	Louisville	419	2345	81	530	322						
20	Memphis	420	2345	81	530	322						
21	Miami	421	2469	84	597	226						
22	Milwaukee	422	2335	79	510	235						
23	Minneapolis/St. Paul	423	2335	79	510	235						
24	Nashville	424	2345	81	530	322						
25	New Orleans	425	2877	97	654	243						
26	New York City	426	2407	82	580	240						
27	Oklahoma City	427	3201	109	812	226						
28	Omaha	428	2335	79	510	235						
29	Phoenix	429	2815	96	565	284						
30	Philadelphia	430	2407	82	580	240						
31	Pittsburgh	431	2407	82	580	240						
32	Portland	432	3364	114	768	300						
33	Richmond	433	2469	84	597	226						
34	St. Louis	434	2335	79	510	235						
35	Salt Lake City	435	2815	96	565	284						
36	San Francisco	436	3364	114	768	300						
37	Tulsa	430	3201	109	812	226						
40	Pacific	440	3451	117	768	317						
41	Mountain	441	2889	99	565	299						
41	Midwest	441	2396	82	510	247						
42	Southwest	442	3285	112	812	238						
43 44	North Central	443 444	2349	81	528	238 218						
	Mideast			82		339						
45 46	Mideast Gulf	445 446	2407		530 654							
46 47		446 447	2953 2522	101	654 507	255						
47 49	Southeast	447	2533	86 84	597 590	238						
48 49	Eastern New England	448 449	2469 2397	84 82	580 513	253 238						

CA-HR-5 EDITION: 01/2020

32. PRIVATE PASSENGER TYPES

	LIABILITY				PEF	RSONAL INJURY	PROTECTION			
	Subline Code									
	(611) Limits						4			
	Identifier Code		Income Day	£:4.a		Subline Code	e (615)	1		
	(1) 100,000 Liability		Income Bene	ents						
	Limit	Includes Replacement Services			Funeral Benefits			Medical Benefits		
Terr. Codes	Limit Code 10	Limit	Not Principally Operated by Employees	Principally Operated by Employees	Limit	Not Principally Operated by Employees	Principally Operated by Employees	Limit	Not Principally Operated by Employees	Principally Operated by Employees
001	1162	\$12,000	35	14	\$4,000	6	2	\$50,000	77	31
		\$24,000	71	27				\$100,000	83	35
	1									
	1									
	1									
	1									
]									
	1									
	1									
	1									
	1									
	1									
	1									
	1									

For liability increased limits factors, refer to Rule 100.

For liability fleet factors, refer to Rule 22.

For Madical Payments, refer to Rile 92, as applicable.

CA-HR-6 EDITION: 01/2020

32. PRIVATE PASSENGER TYPES

Subline Code (618)

PHYSICAL DAMAGE OCN \$15,001 - 20,000

Territory	\$500 Deductible Comprehensive Coverage (726)	\$500 Deductible Collision Code (077)	Territory	\$500 Deductible Comprehensive Coverage (726)	Territory	\$500 Deductible Comprehensive Coverage (726)	\$500 Deductible Collision Code (077)
Territory 001			Territory		Territory		

For additional Coverages, refer to the additional coverages table in Rule 23. For deductible factors, refer to Rule 98. For OCN and Age Group factors, refer to Rule 101.

For stated Amount factors, refer to Rule 101.

34. TOWING AND LABOR COSTS

Premium - \$15.00 per car.

40. PUBLIC AUTO CLASSIFICATIONS TAXIS & LIMOUSINES

	LIABILITY		PERSONAL INJURY PROTECTION									
	Subline Code											
	(611) Limits Identifier Code					Subline Code	(615)					
	(1)		Income Bene	efits		Subilite Code	: (013)					
	100,000 Liability											
	Limit	Inclu	des Replaceme			Funeral Bene			Medical Benef			
Terr.	Limit Code		Owner	Other Than Owner		Owner Operated	Other Than Owner		Owner Operated	Other Than Owner		
Codes	10	Limit	Operated	Operated	Limit	Owner operated	Operated	Limit	Owner Operated	Operated		
001	6405	\$12,000	144	109	\$4,000	22	15	\$50,000	336	253		
		\$24,000	305	230				\$100,000	361	272		
	-											

For liability increased limits factors, refer to Rule 100.

For liability fleet factors, refer to Rule 39.

For Madical Payments, refer to Rile 92, as applicable.

CA-HR-8 EDITION: 01/2020

40. PUBLIC AUTO CLASSIFICATIONS SCHOOL & CHURCH BUSES

	LIABILITY		PERSONAL INJURY PROTECTION									
	Subline Code											
	(611) Limits Identifier Code			Subline Cod	de (615)							
	(1)	Income	Income Benefits									
	100,000 Liability											
	Limit	Includes Repla	cement Services	Funera	Benefits	Medical	Benefits					
Terr.	Limit Code	Limaia	Data	Limeit	Data	Lineit	Data					
Codes 001	10 567	Limit \$12,000	Rate 27	Limit \$4,000	Rate 5	Limit \$50,000	Rate 60					
001	307	\$12,000	55	φ4,000	3	\$100,000	65					
		φ24,000	55			\$100,000	03					
	-											
					1							

For liability increased limits factors, refer to Rule 100.

For liability fleet factors, refer to Rule 39.

For Madical Payments, refer to Rile 92, as applicable.

40. PUBLIC AUTO CLASSIFICATIONS ALL OTHER BUSES

	LIABILITY				PEI	RSONAL INJURY	PROTECTION				
	Subline Code										
	(611) Limits Identifier Code					Subline Code	(615)				
	(1)		Income Bene	efits		Odbiirie Odde	(013)				
	100,000 Liability										
	Limit	Incl	udes Replaceme	nt Services		Funeral Bene	efits		Medical Benefits		
Terr. Codes	Limit Code 10	Limit	Not Government Sponsored	Government Sponsored	Limit	Not Government Sponsored	Government Sponsored	Limit	Not Government Sponsored	Government Sponsored	
001	3924	\$12,000	248	124	\$4,000	35	18	\$50,000	577	289	
		\$24,000	523	262				\$100,000	621	310	
	_										
	_										
	_										
	-										
	1										

For liability increased limits factors, refer to Rule 100.

For liability fleet factors, refer to Rule 39.

For Madical Payments, refer to Rile 92, as applicable.

CA-HR-10 EDITION: 01/2020

40. PUBLIC AUTO CLASSIFICATIONS VAN POOLS

	LIABILITY				PER	RSONAL INJURY	PROTECTION			
	Subline Code (611) Limits					Culphine Co. 1	(645)			
	Identifier Code		In a series Design	- C.		Subline Code	e (615)			
	(1)		Income Bene	efits						
	100,000 Liability Limit	Incl	udes Replaceme	nt Convious		Funeral Ben	ofito		Medical Benef	fito
Terr.	Limit Code	IIICI	Employer			Employer			Employer	
Codes	10	Limit	Furnished	All Other	Limit	Furnished	All Other	Limit	Furnished	All Other
001	1549	\$12,000	7	18	\$4,000	2	3	\$50,000	17	44
001	1549				\$4,000	۷	3			
		\$24,000	15	39				\$100,000	18	47
	_									
	_									
	1									
	+									
	-									
	_									
· · · · · ·										

For liability increased limits factors, refer to Rule 100.

For liability fleet factors, refer to Rule 39.

For Madical Payments, refer to Rile 92, as applicable.

CA-HR-11 EDITION: 01/2020

40. PUBLIC AUTO CLASSIFICATIONS TAXIS, LIMOUSINES, AND VANPOOLS

Subline Code (618)

PHYSICAL DAMAGE OCN \$15,001-20,000

	Specified	\$500	\$500		Specified	500	\$500		Specified	500	\$500
	Causes	Coverage	Deductible		Causes	Coverage	Deductible		Causes	Coverage	Deductible
	of Loss	Comprehensive	Collision		of Loss	Comprehensive	Collision		of Loss	Comprehensive	Collision
		Coverage Code				Coverage Code				Coverage Code	
	(020)	(726)	(077)		(020)	(726)	(077)		(020)	(726)	(077)
Territory				Territory				Territory			
Territory 001	98	138	434	Territory	(020)	Coverage Code (726)	(077)	Territory	(020)	Coverage Code (726)	(077)

For physical damage fleet factors, refer to Rule 39.

For additional coverages, refer to the Additional Coverages table for Rule 40.

For deductible factors, refer to Rule 98.

For OCN and Age Group factors, refer to Rule 101.

For stated Amount factors, refer to Rule 101.

CA-HR-12 EDITION: 01/2020

40. PUBLIC AUTO CLASSIFICATIONS SCHOOL, CHURCH, AND ALL OTHER BUSES

Subline Code (618)

PHYSICAL DAMAGE OCN \$15,001-20,000

	Specified	\$500	\$500		Specified	500	\$500		Specified	500	\$500
	Causes of Loss	Coverage Comprehensive	Deductible Collision		Causes of Loss	Coverage Comprehensive	Deductible Collision		Causes of Loss	Coverage Comprehensive	Deductible Collision
	01 2033	Coverage Code	Comsion		01 2033	Coverage Code	Comsion		01 2033	Coverage Code	Collision
	(020)	(726)	(077)		(020)	(726)	(077)		(020)	(726)	(077)
Territory				Territory				Territory			
001	68	94	221	Temory				remory			

For physical damage fleet factors, refer to Rule 39.

For additional coverages, refer to the Additional Coverages table for Rule 40.

For deductible factors, refer to Rule 98.

For OCN and Age Group factors, refer to Rule 101.

For stated Amount factors, refer to Rule 101.

CA-HR-13 EDITION: 01/2020

49. AUTO DEALERS - PREMIUM DEVELOPMENT

	LIABILITY	IIOM DEVELOPME		ERSONAL INJU	IRY PROTECTIO	N						
	Subline Code (611) Limits Identifier Code		Subline Code (615)									
	(1)	Income E	Renefits	0	(0.0)							
	100,000 Liability	moomo 2	ononto									
	Limit	Includes Replace	ement Services	Funera	l Benefits	Medical B	enefits					
Terr.	Limit Code											
Codes	10	Limit	Rate	Limit	Rate	Limit	Rate					
001	936	\$12,000	17	\$4,000	2	\$50,000	40					
		\$24,000	35	. ,		\$100,000	42					
		Ψ2 1,000	00			ψ.00,000						
	-											
	-											
	_											
	_											
	_											
]											
	†											
	+											
	4											
	†											
	-											

For liability increased limits factors, refer to Rule 100.

For liability fleet factors, refer to Rule 22.

For Madical Payments, refer to Rile 49, as applicable.

Other Than Auto losses for Garage risks are subject to an aggreagate limit equal to three times the liability limit.

Use aggreagate limit indicator Code (3). For additional limits, refer to Rule 49.

CA-HR-14 EDITION: 01/2020

49. AUTO DEALERS - PREMIUM DEVELOPMENT

Acts, Errors Or Omissions Base Loss Cost
94

Table 49.D.2.a. Acts, Errors Or Omissions Liability Coverages Loss Cost

	Liability Base Rate
Mileage	Per Driver, Per Trip
51 - 200 Miles	13
Over 200 Miles	18

Table 49.E.1. Pick Up Or Delivery Of Autos Base Rates

	Base Rate Per					
Limit	\$100 Of Inventory Value					
25,000	0.03					
50,000	0.05					
100,000	0.07					

Table 49.I. False Pretense Base Rates

	Individual Coverage Drive-away Collision Per Car, Per Trip												
		Base Rates For Mileage And Deductible - All Territories, Types, Makes And Age Groups											
Price New At		0 - 500 Miles 501 - 1,000 Miles 1,001 - 1,500 Miles Over 1,500 Miles										les	
Factory To Dealer	\$100	\$250	\$500	\$100	\$250	\$500	\$100	\$250	\$500	\$100	\$250	\$500	
\$ 0 - 7,500	7.48	4.46	3.36	12.43	7.48	5.59	16.54	9.93	7.43	20.70	12.43	9.33	
7,501 - 15,000	10.77	6.48	4.85	17.90	10.72	8.07	23.86	14.33	10.74	29.85	17.90	13.44	
15,001 - 25,000	15.01	8.99	6.76	24.90	14.96	11.21	33.15	19.91	14.91	41.40	24.88	18.64	
25,001 - 40,000	18.20	10.92	8.17	30.26	18.20	13.62	40.26	24.16	18.12	50.35	30.21	22.66	
40,001 - 65,000	25.45	15.28	11.46	42.36	25.42	19.06	56.39	33.82	25.38	70.46	42.28	31.71	
Over \$65,000	31.86	19.13	14.34	52.98	31.79	23.84	70.46	42.28	31.71	88.06	52.83	39.64	

Table 49.K.1. Individual Coverage Drive-away Collision Base Rates

	Blanket Coverage Drive-away Collision Per Car, Per Trip												
		Base Rates For Mileage And Deductible – All Territories, Types, Makes And Age Groups											
Price New At	Ę	51 - 500 Miles 501 - 1,000 Miles 1,001 - 1,500 Miles Over 1,500 Miles										les	
Factory To Dealer	\$100	\$250	\$500	\$100	\$250	\$500	\$100	\$250	\$500	\$100	\$250	\$500	
\$ 0 - 7,500	3.83	2.32	1.71	6.26	3.72	2.82	8.34	5.02	3.76	10.35	6.19	4.66	
7,501 - 15,000	5.39	3.24	2.43	8.99	5.39	4.04	11.94	7.20	5.39	14.96	8.99	6.74	
15,001 - 25,000	7.48	4.46	3.36	12.52	7.48	5.65	16.54	9.93	7.43	20.70	12.43	9.33	
25,001 - 40,000	9.14	5.47	4.11	15.17	9.14	6.83	20.13	12.06	9.06	25.15	15.10	11.32	
40,001 - 65,000	12.80	7.68	5.75	21.21	12.72	9.55	28.18	16.91	12.68	35.23	21.14	15.85	
Over \$65,000	15.97	9.58	7.18	26.54	15.92	11.94	35.23	21.14	15.85	44.07	26.44	19.81	

Table 49.K.2. Blanket Coverage Drive-away Collision Base Rates

49. AUTO DEALERS - PREMIUM DEVELOPMENT

For non-franchised dealers, multiply the rates displayed on this page by 1.10

Subline Code (618)

FIRE RATE Coverage Code (011) \$0.18

FIRE AND THEFT RATES Coverage Code (012)

*Theft is subject to a \$100 per car/\$500 per occurrence deductible.

Territory	Building and Standard	Non-Standard	Miscellaneous Types						
Code	Open Lots	Open Lots	listed in this rule						
ALL TERRITORIES	\$0.94	\$1.12	\$0.69						
*Optional Deductibles: \$250 per car and \$1,000 per occurrence - Multiply the above by .90 \$500 per car and \$2,500 per occurrence - Multiply the above by .75									

SPECIFIED PERILS Coverage Code (020)

*Theft and Mischief or Vandalism are subject to a \$100 per car/\$500 per occurrence deductible

		0	pen Lots	Miscellaneous Types listed in this rule						
Territory Code	Buildings	Standard Open Lots	Non-Standard Open Lots	Buildings	Open Lots					
ALL TERRITORIES	\$1.28	\$1.38	\$1.58	\$1.04	\$1.14					
*Optional Deductibles:		\$250 per car and \$1,000 per occurrence - Multiply the above by .90 \$500 per car and \$2,500 per occurrence - Multiply the above by .75								

LIMITED SPECIFIED PERILS Coverage Code (021)

*Theft is subject to a \$100 per car/\$500 per occurrence deductible.

		0	pen Lots	Miscellaneous Types listed in this rule		
Territory		Standard Non-Standard				
Code	Buildings	Open Lots	Open Lots	Buildings	Open Lots	
ALL TERRITORIES	\$1.19	\$1.28	\$1.46	\$0.96	\$1.04	
*Optional Deductibles:			er occurrence - Multiply the occurrence - Multiply the	•		

CA-HR-16 EDITION: 01/2020

49. AUTO DEALER - PREMIUM DEVELOPMENT

For non-franchised dealers, multiply the rates displayed on this page by 1.10.

Subline Code (618)

COMPREHENSIVE RATES Coverage Code (201)

*Theft and Mischief or Vandalism are subject to a \$100 per car/\$500 per occurrence deductible

Territory Code	Buildings	Standard Open Lots	Non-Standard Open Lots	Miscellaneous Types listed in this rule
ALL TERRITORIES	\$1.46	\$1.59	\$1.80	\$1.38

^{*}Optional Comprehensive Deductibles

\$250 per car and \$1,000 per occurrence - multiply the above rates by .90 (Coverage Code 202) \$500 per car and \$2,500 per occurrence - multiply the above rates by .75 (Coverage Code 203)

BLANKET COLLISION RATES

	DELICITED COERS	OTTILITIES				
Deductible	* Reporting Form - 7	Total of Values Reported	Each Month or Quarter			
and	* Non-Reporting Form - Total of Limits of Liability					
Coverage	* In Rating Territoric	es Having the Same Collis	sion Rate Level			
Code	First \$50,000 and under	\$50,001-\$100,000	Over \$100,000			
\$100						
(074)	\$6.38	\$2.58	\$0.89			
\$250						
(076)	\$3.74	\$1.41	\$0.64			

See Rule 98 for Deductibles not shown above.

50. AUTOMOBILE DEALERS - ADDITIONAL PROVISIONS

Truth in Lending coverage and Odometer coverage may be provided. Charge the following premiums.

Liability Premium	Truth in Lending Charge*	Odometer Charge*
\$ 0-500	\$50	\$50
501-2000	65	65
2001-4000	85	85
4001-7000	115	115
7001-15,000	145	145
15,001-30,000	1% of Liab. Prem.	1% of Liab. Prem.
Over 30,000	Refer to Co.	Refer to Co.

^{*}The limit of liability for those coverages at the premium levels indicated are to be the same as the Liability insurance provided by the policy subject to a maximum \$300,000. (Note: Premiums are already increased for limits- do not apply increased limits factors.)

CA-HR-17 EDITION: 01/2020

55. GARAGEKEEPERS' INSURANCE - PREMIUM DEVELOPMENT

Subline Code (618)

	GARAGEKEEP	ERS' PREMIUMS - O	THER THAN COLLISI	 ON
*Theft and Mischie		are subject to a \$100p		
		D PERILS		EHENSIVE
	Legal Liability	Direct (Primary)	Legal Liability	Direct (Primary)
Maximum Limit		e Codes		je Codes
of Liability	(214)	(215)	(211)	(212)
6,000	30	40	37	49
7,500	35	47	42	57
9,000	40	55	49	65
12,000	50	67	60	81
15,000	59	79	70	96
18,000	65	89	79	106
22,500	79	107	96	128
30,000	99	134	119	161
37,500	117	158	141	190
45,000	134	180	159	216
60,000	164	221	198	267
75,000	195	262	233	314
90,000	223	302	268	362
120,000	275	371	330	446
150,000	322	436	388	522
180,000	372	502	446	602
225,000	446	604	537	725
300,000	565	763	679	916
375,000	686	926	824	1111
450,000	804	1084	965	1302
600,000	1028	1387	1233	1666
750,000	1246	1683	1496	2020
900,000	1460	1970	1750	2364
1,200,000	1860	2511	2233	3015
1,500,000	2223	3000	2667	3600
2,000,000	2515	3396	3018	4073
2,500,000	2740	3698	3286	4437
Over				
	Refer to Company			
Direct Coverage (Exces			Premium Computation	1
Specified Perils (216)	,		e coverage 214 premi	
Comprehensive (213)		Multiply the	e coverage 211 premi	um by 1.15

^{*}Theft and Mischief or Vandalism losses are subject to a \$100 per car and \$500 per occurrence deductible applying to each loss.

Optional Deductibles

\$250 per car and \$1,000 per occurence-Multiply the above rates by .90. \$500 per car and \$2,500 per occurence-Multiply the above rates by .75.

55. GARAGEKEEPERS' INSURANCE - PREMIUM DEVELOPMENT

Subline Code (618)

of Liability (311) (312) 6,000 55 75 7,500 64 87 9,000 74 99 12,000 92 126 15,000 111 149 18,000 131 178 22,500 154 208 30,000 198 267 37,500 233 315 45,000 262 354	Legal Liability	Direct (Primary)	Legal	500 Direct	
Liability (Primary) aximum Limit of Liability Coverage Codes 6,000 55 75 7,500 64 87 9,000 74 99 12,000 92 126 15,000 111 149 18,000 131 178 22,500 154 208 30,000 198 267 37,500 233 315 45,000 262 354	Liability Coverage	(Primary)	=	Direct	
Jaximum Limit of Liability Coverage Codes (311) 6,000 55 75 7,500 64 87 9,000 74 99 12,000 92 126 15,000 111 149 18,000 131 178 22,500 154 208 30,000 198 267 37,500 233 315 45,000 262 354	Covera				
Maximum Limit of Liability Coverage Codes (311) (312) 6,000 55 75 7,500 64 87 9,000 74 99 12,000 92 126 15,000 111 149 18,000 131 178 22,500 154 208 30,000 198 267 37,500 233 315 45,000 262 354	Covera		Liability	(Primary)	
6,000 55 75 7,500 64 87 9,000 74 99 12,000 92 126 15,000 111 149 18,000 131 178 22,500 154 208 30,000 198 267 37,500 233 315 45,000 262 354	(211)	Coverage Codes		Coverage Codes	
7,500 64 87 9,000 74 99 12,000 92 126 15,000 111 149 18,000 131 178 22,500 154 208 30,000 198 267 37,500 233 315 45,000 262 354	(311)	(312)	(311)	(312)	
9,000 74 99 12,000 92 126 15,000 111 149 18,000 131 178 22,500 154 208 30,000 198 267 37,500 233 315 45,000 262 354	35	49	29	37	
12,000 92 126 15,000 111 149 18,000 131 178 22,500 154 208 30,000 198 267 37,500 233 315 45,000 262 354	42	57	32	44	
15,000 111 149 18,000 131 178 22,500 154 208 30,000 198 267 37,500 233 315 45,000 262 354	47	64	37	49	
18,000 131 178 22,500 154 208 30,000 198 267 37,500 233 315 45,000 262 354	60	82	47	62	
22,500 154 208 30,000 198 267 37,500 233 315 45,000 262 354	72	97	55	75	
22,500 154 208 30,000 198 267 37,500 233 315 45,000 262 354	86	116	65	89	
30,000 198 267 37,500 233 315 45,000 262 354	101	136	77	104	
45,000 262 354	129	174	99	134	
	151	205	116	158	
	171	230	131	178	
60,000 329 445	215	289	164	223	
75,000 396 535	258	347	198	267	
90,000 455 614	295	399	226	307	
120,000 569 767	369	498	284	384	
150,000 683 921	443	599	341	460	
180,000 787 1062	512	690	393	532	
225,000 941 1270	612	825	471	636	
300,000 1198 1617	778	1050	599	809	
375,000 1451 1959	943	1273	725	980	
450,000 1701 2297	1106	1493	851	1149	
600,000 2196 2966	1428	1928	1099	1483	
750,000 2684 3622	1745	2355	1342	1812	
900,000 3141 4241	2042	2756	1570	2121	
1,200,000 3994 5394	2597	3506	1998	2696	
1,500,000 4790 6467	3114	4204	2396	3233	
2,000,000 5466 7380	3553	4796	2733	3689	
2,500,000 5956 8041	3872	5226	2978	4020	
Over		1			
2,500,000 Refer to Company					
rect Coverage (Excess)					
ollision (313)		Premium Comput	ation		

For additional coverages, refer to the company.

CA-HR-19 EDITION: 01/2020

66. ANTIQUE AUTOS (Class Code 9620)

	Base Rate Per \$100 Of
Coverage	Insurance With \$50 Ded.
Fire	0.27
Fire and Theft	0.54
Comprehensive	0.94
Collision	0.82

Table 66.B.2. Antique Autos Physical Damage Base Rates

70. FINANCED AUTOS

			Single Int	erest Cov	erage			
							Conve	rsion,
Original Unpaid							Embezz	lement
Balance Including	Compreher	nsive	Collis	sion	Fire A	nd Theft	And Sec	cretion
Finance Charges	New	Used	New	Used	New	Used	New	Used
\$0 - 1500	15	15	50	54	7	8	7	8
1501 - 2000	15	17	55	59	8	10	8	10
2001 - 2500	18	18	65	69	10	10	10	10
2501 - 3000	20	22	75	79	12	12	12	12
3001 - 3500	23	25	86	91	13	15	13	15
3501 - 4000	27	29	97	102	15	15	15	15
4001 - 4500	29	30	104	111	15	18	15	18
4501 - 5000	34	35	121	128	18	20	18	20
5001 - 6000	40	42	141	149	22	23	22	23
6001 - 8000	52	54	186	196	29	32	29	32
Over 8000 Per \$100	0.72	0.77	2.63	2.78	0.40	0.44	0.40	0.44

Table 70.C.1.a. Single Interest Coverage Base Rates

CA-HR-20 EDITION: 01/2020

75. LEASING OR RENTAL CONCERNS

	Base Rates Per \$100
Vehicle Type	Of Insurance
Trucks, Tractors and Trailers	1.04
All Others	5.17

Table 75.B.3.b. Conversion, Embezzlement Or Secretion Base Rates

77. MOTORCYCLES

	Base Rate Per \$100		
Coverage	Of Insurance		
Fire	0.59		
Fire And Theft	1.96		

Table 77.B.4.a.(2) Motorcycles Fire, Fire And Theft Physical Damage Base Rates

79. REPOSSESSED AUTOS

Liability Base Rate
Per Repossessed Auto
6.44

Table 79.B.1.a. Repossessed Autos Liability Base Rate

Liability Minimum Premium
40

Table 79.B.1.d. Repossessed Autos Liability Minimum Premium

80. SNOWMOBILES

	Liability Base
Liability Coverage Option	Base Rate
Passenger Hazard Excluded	45
Passenger Hazard Included	104

Table 80.B.1. Snowmobiles Liability Base Rates

\$500 Limit Medical Payments Base Rate	
10	

Table 80.B.2. Snowmobiles Medical Payments Base Rate

	Base Rate Per \$100
	Of Insurance
Coverage	With \$100 Ded.
Comprehensive	
Excludes Breaking Through Ice	1.54
Includes Breaking Through Ice	2.06
Collision	2.06

Table 80.B.5. Snowmobiles Physical Damage Base Rates

CA-HR-21 EDITION: 01/2020

89. NON-OWNERSHIP LIABILITY

Class	Total Number Of	Liability
Code Employees		Base Rate
6638	0-9	130
6639	10-19	162
6640	19-25	195
6602	26 - 100	345
6603	101 - 500	616
6604	501 - 1,000	972
6605	Over 1,000	2,177

Table 89.C.1.a.(1) Other Than Garage Service Operations Base Rates

Liability Base Rate Per Volunteer	
3	

Table 89.C.2.b. Social Service Agency Volunteers Liability Base Rate

Liability Base Rate Per Volunteer Donor	
0.72	

Table 89.C.2.d. Blanket Individual Liability Of Volunteers Base Rate

Liability Minimum Premium
15

Table 89.C.2.e. Social Service Agency Risks Liability Minimum Premium

90. HIRED AUTOS

Cost of Hire Basis - All Territories	
Liability Base Rate	
\$3.25	

Table 90.B.3.b. Cost Of Hire Basis Liability Base Rate

Liability Minimum Base Premium
\$300

Table 90.B.3.g. Hired Autos Liability Minimum Base Premium

Comprehensive	Rate per \$100 Annual
\$500 Deductible	0.55
\$1000 Deductible	0.51
\$2000 Deductible	0.47

Table 90.C.3.c. Hired Autos Comprehensive Coverage

Collision	Rate per \$100 Annual
\$500 Deductible	0.84
\$1000 Deductible	0.78
\$2000 Deductible	0.73

Table 90.C.3.c. Hired Autos Collision Coverage

Physical Damage Minimum Premium	
100	

Table 90.C.3.e. Hired Autos Physical Damage Minimum Premium

94. RENTAL REIMBURSEMENT

	Base Rate Per \$100
Coverage	Of Insurance
Specified Causes of Loss	1.29
Comprehensive	1.54
Collision	2.58

Table 94.B.3. Rental Reimbursement Physical Damage Base Rates

95. AUDIO, VISUAL AND DATA ELECTRONIC EQUIPMENT

Added Limits For	
Audio, Visual And Data	
Electronic Equipment	Base Rate Per Auto
500	34
1,000	67
1,500	101
2,000	134
2,500	168
3,000	201
3,500	235
4,000	268
4,500	302
5,000	336
5,500	369
6,000	403
6,500	436
7,000	470
7,500	503
8,000	537
8,500	570
9,000	604
9,500	638
10,000	671

Table 95.B.2.a. Audio, Visual And Data Electronic Equipment Base Rates

96. TAPES, RECORDS AND DISCS COVERAGE

Base Rate Per Auto
15

Table 96.B. Tapes, Records And Discs Comprehensive Base Rate

Uninsured and Underinsured Motorists Bodily Injury and Property Damage				
Other Than Private Private Passenger Types Passenger Types Per Bodily Injury Limits Per Exposure Exposure				
55,000	125	129		
60,000	131	133		
100,000	162	160		
125,000	179	174		
150,000	193	185		
200,000	216	204		
250,000	234	219		
300,000	249	231		
325,000	256	236		
350,000	262	241		
400,000	273	250		
500,000	293	265		
600,000	307	276		
750,000	325	290		
1,000,000	348	308		
1,500,000	380	331		
2,000,000	400	346		

Table 97.B.1.a.Single Limits Uninsured and Underinsured Motorists Bodily Injury
And Property Damage Coverage Base Rates

Uninsured Motorists				
Bodily Injury and Property Damage				
Bodily Injury Limits	Private Passenger Types Per Exposure	Other Than Private Passenger Types Per Exposure		
55,000	66	90		
60,000	67	92		
100,000	78	105		
125,000	82	111		
150,000	86	116		
200,000	92	124		
250,000	97	129		
300,000	101	134		
325,000	102	136		
350,000	103	137		
400,000	106	141		
500,000	110	146		
600,000	113	150		
750,000	117	155		
1,000,000	121	160		
1,500,000	126	167		
2,000,000	129	170		

Table 97.B.1.b. Single Limits Uninsured Motorists Bodily Injury

CA-HR-24 EDITION: 01/2020

97. UNINSURED MOTORISTS INSURANCE

Uninsured And Underinsured Motorists Bodily Injury					
Bodily Injury	Private Other Than Passenger Passenger Types Passenger				
Limits	Per Exposure	Types Per Exposure			
25,000/50,000	72	75			
50,000/100,000	106	105			
100,000/300,000	151	142			
250,000/500,000	217	196			
500,000/500,000	269	237			
500,000/1,000,000	273	240			
1,000,000/1,000,000	324	279			

Table 97.B.1.c. Split Limits Uninsured And Underinsured Motorists Bodily Injury Coverage Base Rates

Uninsured Motorists Bodily Injury				
Bodily Injury	Private Passenger Types Per Exposure	Other Than Private Passenger Types Per		
Limits		Exposure		
25,000/50,000	45	58		
50,000/100,000	57	73		
100,000/300,000	72	91		
250,000/500,000	89	113		
500,000/500,000	100	127		
500,000/1,000,000	101	128		
1,000,000/1,000,000	111	141		

Table 97.B.1.d. Split Limits Uninsured Motorists Bodily Injury Coverage Base Rates

CA-HR-25 EDITION: 01/2020

97. UNINSURED MOTORISTS INSURANCE

Uninsured And Underinsured Motorists Property Damage			
Property Damage Limits	Private Passenger Types Per Exposure	Other Than Private Passenger Types Per Exposure	
5,000	17	24	
10,000	23	31	
25,000	35	40	
50,000	46	49	
100,000	61	59	

Table 97.B.1.e. Split Limits Uninsured And Underinsured Motorists

Property Damage Coverage Base Rates

Uninsured Motorists Property Damage					
Property Damage Limits	Private Passenger Types Per Exposure	Other Than Private Passenger Types Per Exposure			
5,000	11	20			
10,000	13	24			
25,000	14	27			
50,000	15	29			
100,000	16	30			

Table 97.B.1.f. Split Limits Uninsured Motorists Property Damage Coverage Base Rates

Base Rate	
12	

Table 97.B.2.a.(4) Individual Named Insured Base Rate

103. POLLUTION LIABILITY.

3.c. Minimum Premium (Class Code 7971)

The minimum premium at \$25,000 limit is:

- (1) \$50 if the policy does not include Liability insurance for any non-owned autos:
- (2) \$75 if Liability insurance is provided for any non-owned autos.

(Note: Non-owned autos include but are not limited to Hired Autos and Employers non-ownership liability.)

CA-HR-26 EDITION: 01/2020

40. PUBLIC AUTO CLASSIFICATIONS

The Liability Factors for Public Auto Not Otherwise Classified in **Table 40.D.3.a. Other Buses** are replaced by the following:

D. Primary Classifications

3. Non-Fleet and Fleet Primary Classifications – Rating Factors And Statistical Codes for Local, Intermediate and Long Distance Radius a. Other Buses

Categories	Local (Up To 50 Miles)		Intermediate (51 To 200 Miles)			Long Distance (Over 200 Miles)			
	Co	de	Factor	Co	ode	Factor	Co	ode	Factor
Other Buses	Non- Fleet	Fleet	Liab.	Non- Fleet	Fleet	Liab.	Non- Fleet	Fleet	Liab.
Public Auto Not Otherwise Classified	585-	588-	0.75	586-	589-	0.85	5879	5809	1.00

Table 40.D.3.a. Other Buses

RU 4.40 CA-DC-2020-RU-501	© 2020, The Hartford
110_1110_071 20 2020 110 001	© 2020, 1110 Hartiola

SERFF Tracking #: HART-132214506 State Tracking #: Company Tracking #: FN.02.503.2020.01

State: District of Columbia Filing Company: Sentinel Insurance Company, Ltd.

TOI/Sub-TOI: 20.0 Commercial Auto/20.0000 Commercial Auto Combinations

Product Name:CA 2020 - Sentinel Rate RevisionProject Name/Number:Commercial Auto /FN.02.503.2020.01

Supporting Document Schedules

Bypassed - Item:	Consulting Authorization
Bypass Reason:	N/A
Attachment(s):	
Item Status:	
Status Date:	
Satisfied - Item:	Actuarial Certification (P&C)
Comments:	
Attachment(s):	SIC Actuarial Memo.pdf SIC Filing Exhibits.pdf
Item Status:	
Status Date:	
Satisfied - Item:	District of Columbia and Countrywide Experience for the Last 5 Years (P&C)
Comments:	See Actuarial Certification (P&C) above.
Attachment(s):	
Item Status:	
Status Date:	
Satisfied - Item:	District of Columbia and Countrywide Loss Ratio Analysis (P&C)
Comments:	
Attachment(s):	SIC LC Adoption Form.pdf
Item Status:	
Status Date:	

Sentinel Insurance Company Commercial Automobile District of Columbia Actuarial Memorandum

Proposal Summary

This filing proposes to revise Commercial Auto base rates to produce an average premium level impact of +6.1% effective 1/18/2020. This filing proposes to:

- Implement new Loss Cost Multipliers.
- Implements new Loss Cost Multipliers to produce revised base rates
- Adopt ISO Liability Deductible Factors from CA-2018-IALL1
- Revise Publics Bus Not Otherwise Classified Classification Factors
- Revise Employed Non-Owned Liability (ENOL) base rates

Exhibit 1 shows proposed premium level changes by coverage and vehicle type.

Ratemaking Methodology

Support for the proposed change is based on indications prepared using a loss ratio method. The experience used is from The Hartford's Commercial Truck and Private Passenger vehicles. These vehicle types represent the bulk of our business. The Hartford's Garage and Publics experience was not reviewed because of small volume and lack of credibility.

The experience underlying the indication is from the five most recent accident years ending 7/31, evaluated as of 10/31/19, weighted by premium.

The underwriting profit load is calculated to deliver 15.0% return on surplus, taking into consideration the timing and amount of cash flows from all sources.

It reflects the investment income derived from policyholder supplied funds from the collection of premium to payment of claims and expenses. It also reflects the investment income derived from shareholder supplied funds (i.e. the surplus supporting underwriting operations.)

Please refer to Exhibit 2 Sheet 1 for the indication by coverage and vehicle type.

Adjustments to historical losses

Historical incurred losses are adjusted to expected prospective levels as shown on Exhibit 2 Sheet 2. The specific adjustments are described below.

Loss Adjustment Expense - Incurred losses are adjusted to include expected ultimate loss adjustment expenses. Please refer to Exhibit 5.

Loss Cost Trend - Incurred losses are trended to a common prospective loss cost level based on observed changes to ISO countrywide frequencies and severities with a 20 point fit from 12Q4 to 17Q3 for Liability, and a 8 point fit from 13Q2 to 16Q4 for Physical Damage. Please refer to Exhibit 6

Expected Loss Development - Incurred losses are developed to ultimate value based on The Hartford's countrywide loss development patterns. Please refer to Exhibit 7.

Excess Losses - are smoothed by capping individual claims at \$100,000. The actual excess losses are replaced with long-term expected excess losses. Please refer to Exhibit 8.

Expected Catastrophe Losses – For OTC, actual catastrophe losses are removed from the experience and replaced with a long term expected amount using the factor derived in Exhibit 9. The experience is from all Hartford Insurance Group writing companies.

Adjustments to historical premium

Historical earned premiums are adjusted as shown in Exhibit 2 Sheet 3.

Premiums are brought to the current total limit manual rate levels. They are then adjusted to reflect the current average level of individual risk pricing. Premiums for physical damage coverages are further adjusted to account for expected increase in the average original cost new (OCN). Please refer to Exhibit 6 Sheet 4.

Credibility

The Hartford's District of Columbia experience is assigned credibility based on the total number of exposures underlying the experience. Partial credibility is determined using an E/(E+K) rule as follows:

Credibility =
$$(\# \text{ of exposures}) / (\# \text{ of exposures} + K)$$

where $K = E[Process\ Variance] / Var[Hypothetical\ Means]$ by coverage, as shown in the following table:

Coverage	K
Liability/UM	31,000
OTC	25,000
Collision	12,000

The complement of credibility weight is assigned to countrywide projected ultimate loss and LAE ratio.

Prepared by: Santhi Sulochanannair Commercial Auto Actuarial

Proposed Effective Date: 01/18/2020

Table of Contents

Exhibit 1 Summary of Proposed Premium Level Changes

Exhibit 2 Indications

Sheet 1 Development of Indication

Sheet 2 Projected Ultimate Incurred Losses & LAE Sheet 3 Development of Adjusted Premiums

Exhibit 3 Permissible Loss Ratios and Expenses Assumptions

Sheet 1 Permissible L&LAE/R

Sheet 2 Development of Expense Assumptions

Exhibit 4 Development of Underwriting Profit Load

Sheet 1 Liability

Sheet 2 Physical Damage

Exhibit 5 Loss Adjustment Expense Assumptions

Exhibit 6 Trend Assumptions

Sheet 1 Liability Trend

Sheet 2 Other Than Collision Trend

Sheet 3 Collision Trend Sheet 4 Premium Trend

Exhibit 7 Loss Development Assumptions

Sheet 1 Liability
Sheet 2 OTC
Sheet 3 Collision
Sheet 4 UM
Sheet 5 PIP

Exhibit 8 Expected Excess Loss Assumptions

Exhibit 9 Catastrophe Load Adjustment

Sentinel Insurance Company

Commercial Auto District of Columbia

Proposed Effective Date: 01/18/2020

Summary of Proposed Premium Level Changes

		Written Prem	Impact of									Lia		Proposed
		on Policies	Change to	Permi	ssible	Loss	Cost	Loss	Cost	Base	Public	Ded		Premium
Vehicle		In Force as of	ISO Base	L&L	AE/R	Modificat	ion Factor	Mult	iplier	Rate	Bus NOC	Factor	ENOL	Level
Type	Covg	10/31/2019	Loss Costs	Current	Proposed	Current	Proposed	Current	Proposed	Change	Change	Change	Change	Change
TTT	LIA	78,158	0.0%	59.6%	60.8%	1.650	1.750	2.76845638	2.87828947	4.0%	0.0%	0.0%	0.0%	4.0%
	OTC	2,805	0.0%	57.4%	57.5%	1.100	1.120	1.91637631	1.94782609	1.6%	0.0%	0.0%	0.0%	1.6%
	COL	5,813	0.0%	57.4%	57.5%	0.930	1.000	1.62020906	1.73913043	7.3%	0.0%	0.0%	0.0%	7.3%
	PIP	1,171	0.0%	59.6%	60.8%	1.060	1.081	1.77852349	1.77852349	0.0%	0.0%	0.0%	0.0%	0.0%
	UM	7,199	0.0%	59.6%	60.8%	1.620	1.700	2.71812081	2.79605263	2.9%	0.0%	0.0%	0.0%	2.9%
PPT	LIA	87,046	0.0%	59.6%	60.8%	1.380	1.460	2.31543624	2.40131579	3.7%	0.0%	0.0%	0.0%	3.7%
	OTC	9,899	0.0%	57.4%	57.5%	1.250	1.300	2.17770035	2.26086957	3.8%	0.0%	0.0%	0.0%	3.8%
	COL	31,702	0.0%	57.4%	57.5%	1.300	1.350	2.26480836	2.34782609	3.7%	0.0%	0.0%	0.0%	3.7%
	PIP	2,028	0.0%	59.6%	60.8%	1.150	1.173	1.92953020	1.92953020	0.0%	0.0%	0.0%	0.0%	0.0%
	UM	14,864	0.0%	59.6%	60.8%	1.620	1.700	2.71812081	2.79605263	2.9%	0.0%	0.0%	0.0%	2.9%
Publics	LIA	0	0.0%	59.6%	60.8%	1.000	1.000	1.67785235	1.64473684	-2.0%	16.6%	0.0%	0.0%	14.2%
	OTC	0	0.0%	57.4%	57.5%	1.000	1.002	1.74216028	1.74216028	0.0%	0.0%	0.0%	0.0%	0.0%
	COL	0	0.0%	57.4%	57.5%	1.000	1.002	1.74216028	1.74216028	0.0%	0.0%	0.0%	0.0%	0.0%
	PIP	0	0.0%	59.6%	60.8%	1.000	1.020	1.67785235	1.67785235	0.0%	0.0%	0.0%	0.0%	0.0%
	UM	0	0.0%	59.6%	60.8%	1.620	1.700	2.71812081	2.79605263	2.9%	0.0%	0.0%	0.0%	2.9%
Misc	Hired Auto	55,368	0.0%							0.0%	0.0%	0.0%	0.0%	0.0%
	ENOL	22,692	0.0%							0.0%	0.0%	0.0%	46.0%	46.0%
		,00_	3.373							0.070	0.070	0.070	.0.070	.0.0,0
	Total	318,745	0.0%							2.8%	0.0%	0.0%	3.3%	6.1%
Misc vehi	cle types and co	verages:		59.6%	60.8%	1.000	1.020	1.678	1.678					

Hired Auto Liability Coverage: 2.768 59.6% 60.8% 1.650 1.750 2.878 **Development of Indication**

Total

240,685

4,519,852

3,681,465

81.5%

Exhibit 2 Sheet 1

21.9%

Trended Fiscal W Prem Earned Projected (2) Acci Yr on Pols in Premium at Projected Ultimate Prem Wtd Prem Wtd Cred Wtd Indicated Veh Type/ Ending Force as of Present Rate Ultimate Inc'd Loss & 5-Year 5-Year Countrywide L&LAE PL&LAE Premium 10/31/2019 & Price Level Loss & LAE LAE Ratio L/R Indication Cred L&LAE/R Ratio Ratio Change Coverage 7/31 K TTT Liab 2019 78,158 94,550 54,569 57.7% 2018 141,187 50,280 35.6% 2017 265,557 160,947 60.6% 55.2% -9.2% 31,000 1.4% 72.8% 72.58% 60.8% 19.4% 2016 335,927 137,673 41.0% 2015 369,991 263,275 71.2% TTT OTC 2019 2,805 3,293 0 0.0% 2018 0.0% 5.027 0 2017 10,009 835 8.3% 1.9% -96.8% 25 000 1 4% 60.8% 59 93% 57.5% 4.2% 2016 12,730 0.0% 0 2015 13,777 0 0.0% 6,837 0.0% TTT COL 2019 0 5,813 14,258 129.4% 2018 11,019 2017 22.467 30,516 135.8% 123.6% 114.9% 12.000 3.0% 68.3% 69.89% 57.5% 21.5% 2016 28,230 24,975 88.5% 2015 30,334 52,443 172.9% TTT UM 2019 7,199 7,193 2,742 38.1% 2018 10,195 4,134 40.5% 2017 20,264 8,738 43.1% 45.0% -26.0% 31,000 1.3% 80.6% 80.16% 60.8% 31.8% 2016 25,768 11,817 45.9% 2015 28,540 13,919 48.8% 1,045,044 TTT Total 95,146 1,902,286 54.9% 19.9% PPT Liab 2019 87,046 91,924 57,211 62.2% 2018 136,094 72,785 53.5% 2017 221,027 112,291 50.8% 110.5% 81.8% 31,000 2.2% 73.3% 74.15% 60.8% 22.0% 2016 308,818 190,779 61.8% 2015 366,863 810,227 220.9% PPT OTC 2019 9,899 11,181 0 0.0% 2018 16,103 4,796 29.8% 2017 26,332 9,253 35.1% 56.1% -2.5% 25,000 2.7% 81.2% 80.55% 57.5% 40.1% 2016 36,588 28,642 78.3% 2015 44,014 32,576 74.0% PPT Coll 2019 31,702 33,648 23,889 71.0% 2018 47,331 41,471 87.6% 2017 78.860 51,355 65.1% 82.0% 42.6% 12 000 5 4% 66.8% 67 61% 57.5% 17.6% 91.2% 2016 115,290 105,169 2015 141.146 119,534 84.7% PPT UM 38.1% 2019 16,058 6,122 14,864 2018 22,622 9,172 40.5% 31.000 79.2% 2017 35,990 15,519 43.1% 44.9% -26.1% 2 2% 78.42% 60.8% 29.0% 2016 49,334 22,625 45.9% 2015 58,604 28,582 48.8% 2,617,566 23.3% **PPT Total** 145.539 2,636,421 100.7%

Proposed Effective Date: 01/18/2020 **Development of Adjusted Losses**

(1)	(2)	(3)	(4)	(5)	(C)								
			()	(0)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
					Incurred				Projected				Projected
		Fiscal			Losses with		Earned	Excess	Ultimate				Ult T/L Inc'd
		Acci Yr	Historic	Prospective	Indiv claims	Loss	Premium	Loss	Total Limit			Other	L&LAE at
Veh		Ending	Ann. Loss	Ann. Loss	Capped at 100K	Dev	at Manual	Premium	Incurred	Loss		Loss	Curr Cost
Type (Covg	<u>7/31</u>	Cost Trend	Cost Trend	Eval @ 10/31	Factor	Present Rates	<u>Factor</u>	<u>Losses</u>	<u>Trend</u>	<u>LAE</u>	<u>Adj</u>	<u>Levels</u>
TTT	Liab	2019	6.3%	6.3%	16,025	1.479	\$98,149	0.177	41,071	1.125	1.181	1.000	54,569
' ' '	LIAD	2018	0.570	0.570	8,653	1.114	\$146,560	0.177	35,584	1.123	1.181	1.000	50,280
		2017			56,681	1.029	\$275,664	0.177	107,102	1.197	1.181	1.000	160,947
		2017			·	1.029		0.177		1.353	1.181	1.000	
					24,258		\$348,712		86,144				137,673
		2015			86,876	1.001	\$384,072	0.177	154,900	1.439	1.181	1.000	263,275
	OTC	2019	4.3%	4.3%	0	1.010	3,357	0.000	0	1.083	1.107	1.060	0
		2018			0	1.000	5,075	0.000	0	1.129	1.107	1.060	0
		2017			604	1.000	10,008	0.000	604	1.178	1.107	1.060	835
		2016			0	1.000	12,609	0.000	0	1.228	1.107	1.060	0
		2015			0	1.000	13,516	0.000	0	1.280	1.107	1.060	0
							•						
	Coll	2019	6.7%	6.7%	0	0.956	6,913	0.000	0	1.133	1.107	1.000	0
		2018			10,738	0.992	10,990	0.000	10,652	1.209	1.107	1.000	14,258
		2017			21,437	0.997	22,101	0.000	21,364	1.290	1.107	1.000	30,516
		2016			16,414	0.998	27,391	0.000	16,384	1.377	1.107	1.000	24,975
		2015			32,272	0.999	29,031	0.000	32,238	1.469	1.107	1.000	52,443
	UM	2019	6.3%	6.3%	0	2.899	7,193	0.287	2,064	1.125	1.181	1.000	2,742
	Oivi	2018	0.070	0.070	0	1.562	10,195	0.287	2,925	1.123	1.181	1.000	4,134
		2017			0	1.185	20,264	0.287	5,815	1.273	1.181	1.000	8,738
		2017			0	1.073	25,768	0.287	7,394	1.353	1.181	1.000	11,817
		2015			0	1.073	28,540	0.287	8,190	1.439	1.181	1.000	13,919
		2015			U	1.031	20,340	0.207	0,190	1.439	1.101	1.000	13,919
PPT	Liab	2019	6.3%	6.3%	18,212	1.479	95,422	0.169	43,059	1.125	1.181	1.000	57,211
		2018			24,799	1.114	141,274	0.169	51,510	1.197	1.181	1.000	72,785
		2017			34,945	1.029	229,439	0.169	74,724	1.273	1.181	1.000	112,291
		2016			64,759	1.007	320,571	0.169	119,374	1.353	1.181	1.000	190,779
		2015			412,138	1.001	380,825	0.169	476,705	1.439	1.181	1.000	810,227
	отс	2019	7.4%	7.4%	0	1.010	11,393	0.000	0	1.147	1.107	1.060	0
]	0.0	2019	7.→7/0	7.→7/U	3,317	1.000	16,249	0.000	3,319	1.231	1.107	1.060	4,796
		2017			5,961	1.000	26,314	0.000	5,961	1.322	1.107	1.060	9,253
		2016			17,183	1.000	36,210	0.000	17,183	1.420	1.107	1.060	28,642
		2015			18,197	1.000	43,138	0.000	18,197	1.525	1.107	1.060	32,576
		2013			10,197	1.000	43,130	0.000	10,197	1.525	1.107	1.000	32,370
	Coll	2019	5.9%	5.9%	20,236	0.956	34,535	0.000	19,339	1.116	1.107	1.000	23,889
		2018			31,964	0.992	48,292	0.000	31,709	1.181	1.107	1.000	41,471
		2017			37,213	0.997	79,988	0.000	37,087	1.251	1.107	1.000	51,355
		2016			71,865	0.998	116,249	0.000	71,735	1.324	1.107	1.000	105,169
		2015			77,089	0.999	141,482	0.000	77,008	1.402	1.107	1.000	119,534
	UM	2019	6.3%	6.3%	0	2.899	16,058	0.287	4,608	1.125	1.181	1.000	6,122
	J.V.	2018	0.070	3.370	0	1.562	22,622	0.287	6,491	1.123	1.181	1.000	9,172
		2017			0	1.185	35,990	0.287	10,327	1.137	1.181	1.000	15,519
		2017			0	1.073	49,334	0.287	14,157	1.353	1.181	1.000	22,625
		2015			0	1.073	58,604	0.287	16,817	1.439	1.181	1.000	28,582
		2010			U	1.031	50,004	0.201	10,017	1.438	1.101	1.000	20,002

⁽¹⁾ Column 10 = [(6)*(7)+(8)*(9)] (2) Column 11 = [1+(4)]*(11) (3) Column 13 - Other loss adjustment is for expected OTC catastrophes

⁽⁴⁾ Column 14 = $[(10)^*(11)^*(12)^*(13)]$ (t1) = The time from average accident date to one year from the effective date

Proposed Effective Date: 01/18/2020 Development Of Adjusted Premiums

Veh Type	Coverage	Projected Annual Premium Trend	Year	Earned <u>Premium</u>	Earned Premium at Present Manual Rate Level	Trend Adj	Pricing Adj	Trended Earned Premium at Present Rate & Price level
<u>ven rype</u>	Coverage	TTCHG	<u>I Cui</u>	TTOTHIGHT	<u>rtate Eevel</u>	<u>/ (uj</u>	<u>/ (u</u>	<u>a i noc ievei</u>
TTT	Liability	0.0%	2019	80,800	98,149	1.000	0.963	94,550
	•		2018	117,690	146,560	1.000	0.963	141,187
			2017	208,712	275,664	1.000	0.963	265,557
			2016	237,694	348,712	1.000	0.963	335,927
			2015	241,892	384,072	1.000	0.963	369,991
	OTC	1.0%	2019	2,984	3,357	1.018	0.963	3,293
			2018	4,373	5,075	1.028	0.963	5,027
			2017	8,390	10,008	1.038	0.963	10,009
			2016	10,093	12,609	1.048	0.963	12,730
			2015	10,208	13,516	1.058	0.963	13,777
	Collision	1.4%	2019	6,175	6,913	1.027	0.963	6,837
			2018	9,644	10,990	1.041	0.963	11,019
			2017	18,980	22,101	1.055	0.963	22,467
			2016	22,483	27,391	1.070	0.963	28,230
			2015	22,485	29,031	1.085	0.963	30,334
	UM	0.0%	2019	7,062	7,193	1.000	1.000	7,193
	_		2018	9,757	10,195	1.000	1.000	10,195
			2017	18,896	20,264	1.000	1.000	20,264
			2016	23,734	25,768	1.000	1.000	25,768
			2015	25,973	28,540	1.000	1.000	28,540
PPT	Liability	0.0%	2019	99,154	95,422	1.000	0.963	91,924
			2018	139,645	141,274	1.000	0.963	136,094
			2017	213,997	229,439	1.000	0.963	221,027
			2016	270,499	320,571	1.000	0.963	308,818
			2015	290,086	380,825	1.000	0.963	366,863
	OTC	1.0%	2019	10,069	11,393	1.019	0.963	11,181
			2018	13,553	16,249	1.029	0.963	16,103
			2017	21,006	26,314	1.039	0.963	26,332
			2016	26,778	36,210	1.049	0.963	36,588
			2015	28,311	43,138	1.059	0.963	44,014
	Collision	0.6%	2019	33,338	34,535	1.011	0.963	33,648
			2018	42,589	48,292	1.017	0.963	47,331
			2017	60,606	79,988	1.023	0.963	78,860
			2016	74,115	116,249	1.029	0.963	115,290
			2015	79,858	141,482	1.036	0.963	141,146
	UM	0.0%	2019	15,715	16,058	1.000	1.000	16,058
			2018	21,598	22,622	1.000	1.000	22,622
			2017	33,512	35,990	1.000	1.000	35,990
			2016	45,389	49,334	1.000	1.000	49,334
			2015	53,265	58,604	1.000	1.000	58,604

Proposed Effective Date: 01/18/2020

Permissible Loss & Loss Adjustment Expense Ratio

	Liability/UM	OTC	Collision
<u>Expense</u>			
Commissions	16.3%	16.3%	16.3%
Other Underwriting Expenses	18.7%	18.7%	18.7%
Taxes, Licenses and Fee	1.7%	1.7%	1.7%
Profit & Contingencies (including Investment Income)	2.5%	5.8%	5.8%
Total Expense & Profit	39.2%	42.5%	42.5%
Permissible Loss & LAE Ratio	60.8%	57.5%	57.5%

Exhibit 3
Sheet 2

Proposed Effective Date: 01/18/2020 Underwriting Expense Assumptions

Countrywide

Direct Written Premium (\$000) Commissions (\$000) Other UW Expense (\$000) Taxes Licenses and Fees

Actual	Actual	Actual	Actual	Actual
2014	2015	2016	2017	2018
498,923	521,400	527,539	465,903	475,566
82,830	89,833	87,031	75,739	77,017
92,021	89,228	90,366	92,561	90,382
12,623	13,089	13,495	10,888	11,841

Commission as % of Direct WP OUE as % of Direct WP

	3-Year Average					
Selected	(2016-2018)					
16.3%	16.3%	16.2%	16.3%	16.5%	17.2%	16.6%
18.7%	18.7%	19.0%	19.9%	17.1%	17.1%	18.4%

Source: Internal Hartford Expense Management Reports

Sentinel Insurance Company	Exhibit 4
Commercial Auto	Sheet 1

District of Columbia

Proposed Effective Date: 01/18/2020 Calculation of Total Rate of Return: Liability

Accident Effective Period: January 1, 2019 through December 31, 2019

Earned Premium \$100,000 Expected Loss & LAE \$60,834 60.8% Expected Expenses \$36,700 36.7% Total Loss, LAE & Expenses \$97,534 97.5% Expected Underwriting Profit \$2,466 2.5% Assumptions \$2,466 2.5% Timing of Accounting Entry \$0.50 Average Earning Lag (Years) 0.50 Average Loss & LAE Incurral Lag (Years) 0.50 Timing of Cash Flows \$0.91 Average Premium Payment Lag (Years) 0.91 Average Loss & LAE Payment Lag (Years) 2.69 Average Expense Payment Lag (Years) 0.81
Expected Expenses \$36,700 36.7% Total Loss, LAE & Expenses \$97,534 97.5% Expected Underwriting Profit \$2,466 2.5% Assumptions Timing of Accounting Entry Average Earning Lag (Years) 0.50 Average Loss & LAE Incurral Lag (Years) 0.50 Average Expense Incurral Lag (Years) 0.50 Timing of Cash Flows Average Premium Payment Lag (Years) 0.91 Average Loss & LAE Payment Lag (Years) 2.69
Total Loss, LAE & Expenses Expected Underwriting Profit S2,466 Assumptions Timing of Accounting Entry Average Earning Lag (Years) Average Loss & LAE Incurral Lag (Years) Average Expense Incurral Lag (Years) Timing of Cash Flows Average Premium Payment Lag (Years) Average Loss & LAE Payment Lag (Years) Average Loss & LAE Payment Lag (Years) 2.69
Expected Underwriting Profit \$2,466 2.5% Assumptions Timing of Accounting Entry Average Earning Lag (Years) 0.50 Average Loss & LAE Incurral Lag (Years) 0.50 Average Expense Incurral Lag (Years) 0.50 Timing of Cash Flows Average Premium Payment Lag (Years) 0.91 Average Loss & LAE Payment Lag (Years) 2.69
Assumptions Timing of Accounting Entry Average Earning Lag (Years) Average Loss & LAE Incurral Lag (Years) Average Expense Incurral Lag (Years) Timing of Cash Flows Average Premium Payment Lag (Years) Average Loss & LAE Payment Lag (Years) 2.69
Timing of Accounting Entry Average Earning Lag (Years) Average Loss & LAE Incurral Lag (Years) Average Expense Incurral Lag (Years) Timing of Cash Flows Average Premium Payment Lag (Years) Average Loss & LAE Payment Lag (Years) 2.69
Average Earning Lag (Years) Average Loss & LAE Incurral Lag (Years) Average Expense Incurral Lag (Years) 7.50 Timing of Cash Flows Average Premium Payment Lag (Years) Average Loss & LAE Payment Lag (Years) 2.69
Average Earning Lag (Years) Average Loss & LAE Incurral Lag (Years) Average Expense Incurral Lag (Years) 7.50 Timing of Cash Flows Average Premium Payment Lag (Years) Average Loss & LAE Payment Lag (Years) 2.69
Average Loss & LAE Incurral Lag (Years) Average Expense Incurral Lag (Years) 7.50 Timing of Cash Flows Average Premium Payment Lag (Years) Average Loss & LAE Payment Lag (Years) 2.69
Average Expense Incurral Lag (Years) Timing of Cash Flows Average Premium Payment Lag (Years) Average Loss & LAE Payment Lag (Years) 2.69
Timing of Cash Flows Average Premium Payment Lag (Years) Average Loss & LAE Payment Lag (Years) 2.69
Average Premium Payment Lag (Years) 0.91 Average Loss & LAE Payment Lag (Years) 2.69
Average Loss & LAE Payment Lag (Years) 2.69
Average Expense Payment Lag (Years) 0.81
Investor est and Tax
Investment and Tax
Investment Rate Before-tax Tax Loss Discount Rate 2.78% 3.57%
Net Cost of Debt (Debt Cost less Investment Income) 2.45%
Federal Income Tax Rate - Underwriting 21.0%
Federal Income Tax Rate - Investment 21.0%
Todala moonio Taxillato mitodinoni
Leverage and Surplus
Premium To Surplus Ratio 3.30
Liability To Surplus Ratio 3.11
Defend Too After Too
Results Before-Tax After-Tax
Underwriting Income (Profit) \$2,466 \$1,948 Investment Income Credit (Operating) \$2,619 \$2,069
Investment Income Credit (Operating) \$2,619 \$2,069
Total Operating Income \$5,086 \$4,018
Operating Return On Premium 5.1% 4.0%
Surplus
Surplus Attributed \$30,340 \$30,340
Investment Income On Surplus \$845 \$668
Servicing Cost of Debt -\$134
Total Net Income \$5,931 \$4,55
1 Otta 1100 1110 94,33
Expected Return on Surplus 15.0%

Sentinel Insurance Company	Exhibit 4
Commercial Auto	Sheet 2

District of Columbia

Proposed Effective Date: 01/18/2020

Calculation of Total Rate of Return: Physical Damage Coverages Accident Effective Period: January 1, 2019 through December 31, 2019

Financials Earned Premium	Before-Tax \$100,000	Premium %
Expected Loss & LAE	\$57,516	57.5%
Expected Expenses	\$36,700	36.7%
Total Loss, LAE & Expenses	\$94,216	94.2%
Expected Underwriting Profit	\$5,784	5.8%
Assumptions		
Timing of Accounting Entry		
Average Earning Lag (Years)		0.50
Average Loss & LAE Incurral Lag (Years)		0.50
Average Expense Incurral Lag (Years)		0.50
Timing of Cash Flows		
Average Premium Payment Lag (Years)		0.91
Average Loss & LAE Payment Lag (Years)		0.70
Average Expense Payment Lag (Years)		0.81
Investment and Tax		
Investment Rate Before-tax		2.73%
Tax Loss Discount Rate		3.57%
Net Cost of Debt (Debt Cost less Investment Inco	ome)	2.45%
Federal Income Tax Rate - Underwriting		21.0%
Federal Income Tax Rate - Investment		21.0%
Leverage and Surplus		
Premium To Surplus Ratio		3.21
Liability To Surplus Ratio		(0.56)
Results	Before-Tax	After-Tax
Underwriting Income (Profit)	\$5,784	\$4,569
Investment Income Credit (Operating)	-\$548	-\$433
Total Operating Income	\$5,236	\$4,136
Operating Return On Premium	5.2%	4.1%
Surplus		
Surplus Attributed	\$31,118	\$31,118
Investment Income On Surplus	\$847	\$669
Servicing Cost of Debt		-\$138
Total Net Income	\$6,083	\$4,668
Expected Return on Surplus		15.0%

Proposed Effective Date: 01/18/2020 Loss Adjustment Expense Assumptions

Liability

<u>Year</u>	Inc Loss	Inc ALAE	Inc ULAE	<u>LAE</u>	ALAE as a % of Inc Loss	ULAE as a % of Inc Loss	LAE as a % of Inc Loss			
2014	287,002	37,341	28,255	65,596	13.0%	9.8%	22.9%			
2015	311,897	29,393	26,849	56,242	9.4%	8.6%	18.0%			
2016	377,630	33,903	24,241	58,144	9.0%	6.4%	15.4%			
2017	359,439	29,129	28,006	57,135	8.1%	7.8%	15.9%			
2018	298,990	31,287	27,158	58,445	10.5%	9.1%	19.5%			
Total	1,634,958	161,053	134,509	295,562	9.9%	8.2%	18.1%			
						Selected:	18.1%			
Physical Damage										

Physical Damage

						Selected:	10.7%
Total	396,137	4,122	38,367	42,489	1.0%	9.7%	10.7%
2018	69,645	1,651	5,488	7,139	2.4%	7.9%	10.3%
2017	89,339	1,595	8,198	9,793	1.8%	9.2%	11.0%
2016	84,678	138	8,430	8,568	0.2%	10.0%	10.1%
2015	73,283	189	7,971	8,160	0.3%	10.9%	11.1%
2014	79,192	549	8,280	8,829	0.7%	10.5%	11.1%
<u>Year</u>	Inc Loss	Inc ALAE	Inc ULAE	<u>LAE</u>	ALAE as a % of Inc Loss	ULAE as a % of Inc Loss	LAE as a % of Inc Loss

Source: Insurance expense exhibit

Commercial Auto District of Columbia

Proposed Effective Date: 01/18/2020

ISO LIA TREND

ISO - Commercial Auto BI Trend Multistate

Accident Year Incurred

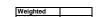
Time		Ultimate	Yearly		Yearly	Yearly
	Accident	Frequency	Change		Change	Change
	Year	per 100	in	Total Limits	in	in
	Ending	Exposures	Frequency	Severity	Severity	Loss Costs
1	06/30/12	0.8053		49,540		
2	09/30/12	0.7964		49,674		
3	12/31/12	0.7911		50,990		
4	03/31/13	0.7848		52,380		
5	06/30/13	0.7912	-1.8%	53,690	8.4%	6.5%
6	09/30/13	0.8012	0.6%	54,565	9.8%	10.5%
7	12/31/13	0.8016	1.3%	54,020	5.9%	7.4%
8	03/31/14	0.8103	3.2%	53,474	2.1%	5.4%
9	06/30/14	0.8023	1.4%	53,621	-0.1%	1.3%
10	09/30/14	0.7960	-0.6%	54,916	0.6%	0.0%
11	12/31/14	0.8009	-0.1%	55,450	2.6%	2.6%
12	03/31/15	0.7928	-2.2%	55,776	4.3%	2.1%
13	06/30/15	0.7974	-0.6%	56,715	5.8%	5.1%
14	09/30/15	0.8037	1.0%	58,270	6.1%	7.1%
15	12/31/15	0.8119	1.4%	59,030	6.5%	7.9%
16	03/31/16	0.8232	3.8%	59,650	6.9%	11.0%
17	06/30/16	0.8334	4.5%	60,692	7.0%	11.8%
18	09/30/16	0.8443	5.1%	61,460	5.5%	10.8%
19	12/31/16	0.8431	3.8%	62,875	6.5%	10.6%
20	03/31/17	0.8452	2.7%	64,042	7.4%	10.2%
21	06/30/17	0.8488	1.8%	64,397	6.1%	8.1%
22	09/30/17	0.8384	-0.7%	63,275	3.0%	2.2%
23	12/31/17	0.8377	-0.6%	63,157	0.4%	-0.2%
24	03/31/18	0.8395	-0.7%	64,504	0.7%	0.0%

Property Dar				
Ultimate	Yearly		Yearly	Yearly
Frequency	Change		Change	Change
per 100	in	Total Limits	in	in
Exposures	Frequency	Severity	Severity	Loss Costs
2.8985		3,755		
2.8688		3,770		
2.8493		3,838		
2.8702		3,838		
2.8932	-0.2%	3,870	3.1%	2.9%
2.9248	2.0%	3,904	3.6%	5.6%
2.9440	3.3%	3,913	1.9%	5.3%
3.0257	5.4%	3,936	2.6%	8.1%
3.0251	4.6%	3,983	2.9%	7.6%
3.0249	3.4%	4,048	3.7%	7.2%
3.0198	2.6%	4,109	5.0%	7.7%
2.9837	-1.4%	4,181	6.2%	4.7%
2.9885	-1.2%	4,246	6.6%	5.3%
3.0166	-0.3%	4,297	6.1%	5.8%
3.0350	0.5%	4,346	5.8%	6.3%
3.0137	1.0%	4,394	5.1%	6.1%
3.0258	1.2%	4,468	5.2%	6.5%
3.0357	0.6%	4,516	5.1%	5.8%
3.0306	-0.1%	4,556	4.8%	4.7%
3.0097	-0.1%	4,623	5.2%	5.1%
2.9967	-1.0%	4,665	4.4%	3.4%
2.9489	-2.9%	4,685	3.8%	0.8%
2.9314	-3.3%	4,727	3.8%	0.4%
2.9243	-2.8%	4,771	3.2%	0.3%

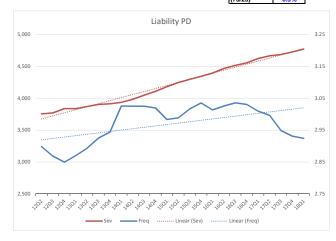
Fit		Frequency	Severity	Total
24 Points	12Q2 to 18Q1	1.3%	4.8%	6.1%
20 Points	12Q4 to 17Q3	1.6%	4.9%	6.6%
	13Q1 to 17Q4	1.6%	4.7%	6.4%
	13Q2 to 18Q1	1.5%	4.7%	6.3%
16 Points	13Q4 to 17Q3	1.8%	5.6%	7.5%
	14Q1 to 17Q4	1.8%	5.5%	7.4%
	14Q2 to 18Q1	1.9%	5.3%	7.3%
12 Points	14Q4 to 17Q3	2.7%	5.9%	8.8%
	15Q1 to 17Q4	2.4%	5.2%	7.8%
	15Q2 to 18Q1	1.9%	4.6%	6.6%
8 Points	15Q4 to 17Q3	2.0%	5.1%	7.3%
	16Q1 to 17Q4	0.8%	3.7%	4.6%
	16Q2 to 18Q1	0.0%	2.8%	2.8%
4 Points	16Q4 to 17Q3	-0.5%	1.0%	0.5%
	17Q1 to 17Q4	-1.6%	-2.3%	-3.9%
	17Q2 to 18Q1	-1.3%	0.1%	-1.2%

	Frequency	Severity	Total
24 Points	0.6%	4.6%	5.2%
20 Points	0.8%	4.8%	5.7%
	0.4%	4.9%	5.4%
	0.1%	4.9%	5.0%
16 Points	0.0%	5.3%	5.3%
	-0.4%	5.1%	4.7%
	-0.6%	4.9%	4.3%
12 Points	-0.2%	4.9%	4.7%
	-0.5%	4.6%	4.1%
	-1.0%	4.4%	3.3%
8 Points	-1.2%	4.6%	3.3%
	-1.7%	4.2%	2.4%
	-2.4%	3.8%	1.3%
4 Points	-3.4%	3.8%	0.3%
	-3.7%	2.9%	-1.0%
	-3.1%	3.1%	-0.1%
20 Points	0.8%	4.8%	5.7%

Selected:	20 Points	12Q4 to 17Q3	1.6%	4.9%	6.6%







Commercial Auto
District of Columbia

ISO - Commercial Auto Other Than Collision Trend

Proposed Effective Date: 01/18/2020

Multistate

ISO OTC TREND

Calendar Year Paid

TRUCKS, TRACTORS, AND TRAILERS

Time		Ultimate	Yearly		Yearly	Yearly
		Frequency	Change	\$500	Change	Change
	Year	per 100	in	Deductible	in	in
	Ending	Exposures	Frequency	Severity	Severity	Loss Costs
1	06/30/2013	1.4422		4,851		
2	12/31/2013	1.4153		4,839		
3	06/30/2014	1.4119	-2.1%	5,035	3.8%	1.6%
4	12/31/2014	1.3715	-3.1%	5,248	8.4%	5.1%
5	06/30/2015	1.3544	-4.1%	5,392	7.1%	2.7%
6	12/31/2015	1.3517	-1.4%	5,666	8.0%	6.4%
7	06/30/2016	1.3469	-0.6%	5,808	7.7%	7.1%
8	12/31/2016	1.3499	-0.1%	5,853	3.3%	3.2%
9	06/30/2017	1.3541	0.5%	6,215	7.0%	7.6%
10	12/31/2017	1.3765	2.0%	6,552	11.9%	14.2%

		Frequency	Severity	Total
10 Points	13Q2 to 17Q4	-1.2%	7.0%	5.7%
8 Points	13Q2 to 16Q4	-2.0%	6.4%	4.3%
	13Q4 to 17Q2	-1.4%	7.0%	5.5%
	14Q2 to 17Q4	-0.6%	7.3%	6.7%
4 Points	15Q2 to 16Q4	-0.3%	5.6%	5.3%
	15Q4 to 17Q2	0.1%	5.9%	6.0%
	16Q2 to 17Q4	1.4%	8.8%	10.3%

Selected: 8 Points 13Q2 to 16Q4 -2.0% 6.4% 4.3%

PRIVATE PASSENGER TYPES

Time		Ultimate	Yearly		Yearly	Yearly
		Frequency	Change	\$500	Change	Change
	Year	per 100	in	Deductible	in	in
	Ending	Exposures	Frequency	Severity	Severity	Loss Costs
1	06/30/2013	3.1035		1,902		
2	12/31/2013	3.1035		1,914		
3	06/30/2014	3.2260	3.9%	1,965	3.3%	7.4%
4	12/31/2014	3.1967	3.0%	2,056	7.4%	10.7%
5	06/30/2015	3.0840	-4.4%	2,123	8.0%	3.3%
6	12/31/2015	3.1549	-1.3%	2,244	9.1%	7.7%
7	06/30/2016	3.2030	3.9%	2,347	10.5%	14.8%
8	12/31/2016	3.1035	-1.6%	2,354	4.9%	3.2%
9	06/30/2017	3.0051	-6.2%	2,400	2.2%	-4.1%
10	12/31/2017	2.9925	-3.6%	2,575	9.4%	5.5%

		Frequency	Severity	Total
10 Points	13Q2 to 17Q4	-0.9%	7.1%	6.2%
8 Points	13Q2 to 16Q4	0.1%	7.3%	7.4%
	13Q4 to 17Q2	-0.9%	7.2%	6.3%
	14Q2 to 17Q4	-1.9%	7.5%	5.4%
4 Points	15Q2 to 16Q4	0.7%	7.3%	8.1%
	15Q4 to 17Q2	-3.5%	4.2%	0.5%
	16Q2 to 17Q4	-4.6%	6.1%	1.2%

Selected: 8 Points 13Q2 to 16Q4 0.1% 7.3% 7	7.4%
---	------

District of Columbia

Proposed Effective Date: 01/18/2020

ISO COL TREND

ISO - Commercial Auto Collision Trend Multistate Calendar Year Paid

TRUCKS, TRACTORS, AND TRAILERS

Time		Ultimate	Yearly		Yearly	Yearly
		Frequency	Change	\$500	Change	Change
	Year	per 100	in	Deductible	in	in
	Ending	Exposures	Frequency	Severity	Severity	Loss Costs
1	06/30/2013	2.2440		7,665		
2	12/31/2013	2.2362		7,856		
3	06/30/2014	2.2971	2.4%	8,040	4.9%	7.4%
4	12/31/2014	2.2800	2.0%	8,346	6.2%	8.3%
5	06/30/2015	2.2504	-2.0%	8,628	7.3%	5.1%
6	12/31/2015	2.2734	-0.3%	8,757	4.9%	4.6%
7	06/30/2016	2.2563	0.3%	9,124	5.7%	6.0%
8	12/31/2016	2.3489	3.3%	9,326	6.5%	10.0%
9	06/30/2017	2.3681	5.0%	9,380	2.8%	7.9%
10	12/31/2017	2.2975	-2.2%	9,888	6.0%	3.7%

		Frequency	Severity	Total
10 Points	13Q2 to 17Q4	0.9%	5.7%	6.6%
8 Points	13Q2 to 16Q4	0.8%	5.9%	6.7%
	13Q4 to 17Q2	1.2%	5.5%	6.8%
	14Q2 to 17Q4	0.7%	5.6%	6.4%
4 Points	15Q2 to 16Q4	2.4%	5.6%	8.2%
	15Q4 to 17Q2	3.3%	4.7%	8.1%
	16Q2 to 17Q4	1.3%	5.1%	6.4%

Selected: 8 Points 13Q2 to 16Q4 0.8% 5.9% 6.7%

PRIVATE PASSENGER TYPES

Time		Ultimate	Yearly		Yearly	Yearly
		Frequency	Change	\$500	Change	Change
	Year	per 100	in	Deductible	in	in
	Ending	Exposures	Frequency	Severity	Severity	Loss Costs
1	06/30/2013	5.0940		4,986		
2	12/31/2013	5.0944		5,038		
3	06/30/2014	5.2539	3.1%	5,157	3.4%	6.7%
4	12/31/2014	5.2844	3.7%	5,376	6.7%	10.7%
5	06/30/2015	5.2453	-0.2%	5,510	6.8%	6.7%
6	12/31/2015	5.2610	-0.4%	5,619	4.5%	4.1%
7	06/30/2016	5.1502	-1.8%	5,767	4.7%	2.8%
8	12/31/2016	5.2059	-1.0%	5,949	5.9%	4.8%
9	06/30/2017	5.2088	1.1%	5,978	3.7%	4.8%
10	12/31/2017	5.1562	-1.0%	6,230	4.7%	3.7%

		Frequency	Severity	Total
10 Points	13Q2 to 17Q4	0.2%	5.2%	5.3%
8 Points	13Q2 to 16Q4	0.5%	5.4%	5.9%
	13Q4 to 17Q2	0.1%	5.2%	5.3%
	14Q2 to 17Q4	-0.6%	5.2%	4.5%
4 Points	15Q2 to 16Q4	-0.9%	5.3%	4.3%
	15Q4 to 17Q2	-0.4%	4.4%	4.0%
	16Q2 to 17Q4	0.1%	4.8%	4.9%

Selected: 8 Points 13Q2 to 16Q4 0.5% 5.4% 5.9%

Proposed Effective Date: 01/18/2020 Expected Trend in Original Cost New

TRUCKS, TRACTORS, AND TRAILERS

Year Ended	OTHER THAN COLLISION	COLLISION
06/30/2013	1.224	1.359
12/31/2013	1.230	1.368
06/30/2014	1.237	1.377
12/31/2014	1.242	1.385
06/30/2015	1.248	1.394
12/31/2015	1.254	1.402
06/30/2016	1.260	1.413
12/31/2016	1.266	1.424
06/30/2017	1.272	1.435
12/31/2017	1.278	1.447
Average Annual Change 10 PT:	1.0%	1.4%
Coefficient of Determination R2:	1.000	0.997
Selected:	1.0%	1.4%

PRIVATE PASSENGER TYPES

Year Ended	OTHER THAN COLLISION	COLLISION
06/30/2013	1.304	1.150
12/31/2013	1.309	1.153
06/30/2014	1.314	1.155
12/31/2014	1.320	1.158
06/30/2015	1.325	1.161
12/31/2015	1.332	1.165
06/30/2016	1.340	1.170
12/31/2016	1.347	1.173
06/30/2017	1.355	1.177
12/31/2017	1.361	1.180
Average Annual Change 10 PT:	1.0%	0.6%
Coefficient of Determination R2:	0.994	0.992
Selected:	1.0%	0.6%

Source:

Insurance Services Office Comm Auto Trend Data and Analysis Multistate (All states except Hawaii and Massachusetts)

Commercial Auto

District of Columbia

Proposed Effective Date: 01/18/2020

Loss Development: Countrywide Liability (in thousands)

Capped at \$100,000

ACC	@ 15	@ 27	@ 39	@ 51	@ 63	@ 75	@ 87	@ 99	@ 111	@ 123	@ 135	@ 147
<u>Year</u>	<u>Months</u>	<u>Months</u>	<u>Months</u>	<u>Months</u>	<u>Months</u>	Months	Months	Months	<u>Months</u>	<u>Months</u>	Months	Months
2007	126,058	156,737	172,515	176,882	177,960	177,369	177,422	177,373	177,373	177,375	177,306	177,328
2008	114,069	143,534	154,460	156,783	156,906	157,084	157,336	157,029	157,075	157,076	157,038	
2009	103,481	132,096	142,247	145,968	147,729	147,118	147,291	147,254	147,468	147,439		
2010	104,365	129,905	145,228	150,390	148,638	148,528	148,688	148,501	148,513			
2011	107,531	144,326	161,343	159,567	159,969	160,291	160,306	160,342				
2012	112,561	153,198	161,622	164,605	165,724	166,349	166,443					
2013	104,022	129,967	139,922	144,375	145,743	145,627						
2014	94,001	123,621	135,440	138,172	139,854							
2015	93,739	125,952	135,862	139,505								
2016	93,198	123,260	134,897									
2017	78,968	106,816										
2018	69,978											
ACC												
<u>Year</u>	<u>15-27</u>	<u>27-39</u>	<u>39-51</u>	<u>51-63</u>	<u>63-75</u>	<u>75-87</u>	<u>87-99</u>	<u>99-111</u>	<u>111-123</u>	<u>123-135</u>	<u>135-147</u>	
2007	1.243	1.101	1.025	1.006	0.997	1.000	1.000	1.000	1.000	1.000	1.000	
2008	1.258	1.076	1.015	1.001	1.001	1.002	0.998	1.000	1.000	1.000		
2009	1.277	1.077	1.026	1.012	0.996	1.001	1.000	1.001	1.000			
2010	1.245	1.118	1.036	0.988	0.999	1.001	0.999	1.000				
2011	1.342	1.118	0.989	1.003	1.002	1.000	1.000					
2012	1.361	1.055	1.018	1.007	1.004	1.001						
2013	1.249	1.077	1.032	1.009	0.999							
2014	1.315	1.096	1.020	1.012								
2015	1.344	1.079	1.027									
2016	1.323	1.094										
2017	1.353											
All pt	1.301	1.089	1.021	1.005	1.000	1.001	0.999	1.000	1.000	1.000	1.000	
5 Yr Avg	1.317	1.080	1.017	1.004	1.000	1.001	0.999					
5 Yr Ex-Hi Lo	1.327	1.083	1.022	1.006	1.000	1.001	0.999					
Selected	1.327	1.083	1.022	1.006	1.000	1.001	0.999	1.000				
Age to Ult	1.479	1.114	1.029	1.007	1.001	1.000	0.999	1.000				

Sentinel Insurance Company

Commercial Auto District of Columbia

Proposed Effective Date: 01/18/2020

Loss Development: Countrywide OTC (in thousands)

ACC	@ 15	@ 27	@ 39	@ 51	@ 63	@ 75	@ 87	@ 99	@ 111	@ 123	@ 135	@ 147
<u>Year</u>	<u>Months</u>	<u>Months</u>	<u>Months</u>	<u>Months</u>								
2007	18,882	18,983	18,932	18,917	18,917	18,915	18,915	18,915	18,915	18,920	18,920	18,920
2008	20,253	20,370	20,413	20,413	20,408	20,398	20,384	20,384	20,384	20,387	20,387	
2009	16,576	16,744	16,728	16,698	16,691	16,691	16,691	16,691	16,691	16,691		
2010	15,609	15,745	15,742	15,756	15,756	15,737	15,737	15,737	15,737			
2011	18,028	17,967	18,004	18,004	17,987	17,988	17,984	17,984				
2012	18,346	18,275	18,274	18,274	18,285	18,292	18,292					
2013	15,439	15,569	15,670	15,675	15,675	15,677						
2014	16,276	16,516	16,529	16,510	16,510							
2015	15,755	15,902	15,909	15,913								
2016	15,820	15,986	15,966									
2017	15,445	15,542										
2018	12,055											
ACC												
<u>Year</u>	<u>15-27</u>	<u>27-39</u>	<u>39-51</u>	<u>51-63</u>	<u>63-75</u>	<u>75-87</u>	<u>87-99</u>	<u>99-111</u>	<u>111-123</u>	<u>123-135</u>	<u>135-147</u>	
2007	1.005	0.997	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2008	1.006	1.002	1.000	1.000	1.000	0.999	1.000	1.000	1.000	1.000		
2009	1.010	0.999	0.998	1.000	1.000	1.000	1.000	1.000	1.000			
2010	1.009	1.000	1.001	1.000	0.999	1.000	1.000	1.000				
2011	0.997	1.002	1.000	0.999	1.000	1.000	1.000					
2012	0.996	1.000	1.000	1.001	1.000	1.000						
2013	1.008	1.006	1.000	1.000	1.000							
2014	1.015	1.001	0.999	1.000								
2015	1.009	1.000	1.000									
2016	1.010	0.999										
2017	1.006											
All pt	1.007	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5 Yr Avg	1.010	1.001	1.000	1.000	1.000	1.000	1.000					
5 Yr Ex-Hi Lo	1.009	1.000	1.000	1.000	1.000	1.000	1.000					
Selected	1.009	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
Age to Ult	1.010	1.000	1.000	1.000	1.000	1.000	1.000	1.000				

Commercial Auto
District of Columbia

Proposed Effective Date: 01/18/2020

Loss Development: Countrywide Collision (in thousands)

ACC	@ 15	@ 27	@ 39	@ 51	@ 63	@ 75	@ 87	@ 99	@ 111	@ 123	@ 135	@ 147
<u>Year</u>	<u>Months</u>	<u>Months</u>	<u>Months</u>	<u>Months</u>								
2007	74,615	69,911	69,559	69,412	69,400	69,398	69,390	69,389	69,386	69,384	69,383	69,382
2008	68,770	65,762	65,325	65,276	65,241	65,226	65,174	65,162	65,153	65,152	65,184	
2009	58,218	55,792	55,678	55,608	55,597	55,589	55,574	55,569	55,566	55,578		
2010	56,928	54,598	54,214	54,050	54,011	53,935	53,923	53,867	53,866			
2011	59,916	57,425	56,886	56,773	56,660	56,656	56,654	56,594				
2012	58,890	56,626	56,299	56,163	56,134	56,119	56,079					
2013	56,076	54,029	53,697	53,667	53,630	53,618						
2014	56,896	54,875	54,762	54,671	54,623							
2015	59,583	57,394	57,247	57,183								
2016	58,483	56,338	56,029									
2017	54,371	52,053										
2018	50,452											
ACC												
<u>Year</u>	<u>15-27</u>	<u>27-39</u>	<u>39-51</u>	<u>51-63</u>	<u>63-75</u>	<u>75-87</u>	<u>87-99</u>	<u>99-111</u>	<u>111-123</u>	<u>123-135</u>	<u>135-147</u>	
2007	0.937	0.995	0.998	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
2008	0.956	0.993	0.999	0.999	1.000	0.999	1.000	1.000	1.000	1.000		
2009	0.958	0.998	0.999	1.000	1.000	1.000	1.000	1.000	1.000			
2010	0.959	0.993	0.997	0.999	0.999	1.000	0.999	1.000				
2011	0.958	0.991	0.998	0.998	1.000	1.000	0.999					
2012	0.962	0.994	0.998	0.999	1.000	0.999						
2013	0.963	0.994	0.999	0.999	1.000							
2014	0.964	0.998	0.998	0.999								
2015	0.963	0.997	0.999									
2016	0.963	0.995										
2017	0.957											
All pt	0.958	0.995	0.998	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5 Yr Avg	0.962	0.996	0.998	0.999	1.000	1.000	1.000					
7r Ex-Hi Lo	0.963	0.995	0.998	0.999	1.000	1.000	1.000					
Selected	0.963	0.995	0.998	0.999	1.000	1.000	1.000	1.000				
Age to Ult	0.956	0.992	0.997	0.998	0.999	0.999	1.000	1.000				

@ **147**<u>Months</u>
15,443

Commercial Auto

District of Columbia

Proposed Effective Date: 01/18/2020

Loss Development: Countrywide Uninsured Motorists (in thousands)

Capped at \$100,000

ACC	@ 15	@ 27	@ 39	@ 51	@ 63	@ 75	@ 87	@ 99	@ 111	@ 123	@ 135	
<u>Year</u>	Months	Months	Months	ľ								
2007	4,418	8,947	12,998	14,415	15,125	15,243	15,418	15,423	15,418	15,418	15,443	
2008	3,634	8,339	11,327	11,801	12,537	12,429	12,492	12,580	12,563	12,512	12,512	
2009	3,366	6,510	8,148	9,174	9,551	9,883	9,960	9,960	9,960	9,960		
2010	3,633	6,012	8,217	9,789	10,440	10,677	10,826	10,898	10,986			
2011	4,661	9,943	11,541	12,872	13,228	13,344	13,442	13,431				
2012	4,280	7,581	9,229	10,084	10,151	10,574	10,584					
2013	4,547	7,471	8,979	10,235	10,701	10,760						
2014	3,529	6,588	9,462	10,304	10,785							
2015	3,459	7,833	10,676	11,818								
2016	3,913	6,608	9,074									
2017	3,654	7,353										
2018	2,855											
ACC												
<u>Year</u>	<u>15-27</u>	<u>27-39</u>	<u>39-51</u>	<u>51-63</u>	<u>63-75</u>	<u>75-87</u>	<u>87-99</u>	<u>99-111</u>	<u>111-123</u>	<u>123-135</u>	<u>135-147</u>	
2007	2.025	1.453	1.109	1.049	1.008	1.011	1.000	1.000	1.000	1.002	1.000	
2008	2.295	1.358	1.042	1.062	0.991	1.005	1.007	0.999	0.996	1.000		
2009	1.934	1.252	1.126	1.041	1.035	1.008	1.000	1.000	1.000			
2010	1.655	1.367	1.191	1.067	1.023	1.014	1.007	1.008				
2011	2.133	1.161	1.115	1.028	1.009	1.007	0.999					
2012	1.771	1.217	1.093	1.007	1.042	1.001						
2013	1.643	1.202	1.140	1.046	1.006							
2014	1.867	1.436	1.089	1.047								
2015	2.265	1.363	1.107									
2016	1.689	1.373										
2017	2.012											
All pt	1.935	1.318	1.112	1.043	1.016	1.008	1.003	1.002	0.999	1.001	1.000	
5 Yr Avg	1.895	1.318	1.109	1.039	1.023	1.007	1.003					
5 Yr Ex-Hi Lo	1.856	1.318	1.105	1.040	1.022	1.007	1.002					
Selected	1.856	1.318	1.105	1.040	1.022	1.007	1.002	1.000				
Age to Ult	2.899	1.562	1.185	1.073	1.031	1.009	1.002	1.000				

@ **147**<u>Months</u>
6,047

District of Columbia

Proposed Effective Date: 01/18/2020

Loss Development: Countrywide Personal Injury Protection (in thousands)

Capped at \$100,000

ACC	@ 15	@ 27	@ 39	@ 51	@ 63	@ 75	@ 87	@ 99	@ 111	@ 123	@ 135	
<u>Year</u>	Months	Months	Months	<u>Months</u>	Months	Months	Months	Months	Months	Months	<u>Months</u>	<u>!</u>
2007	6,090	5,895	5,962	5,969	5,984	6,005	5,958	6,022	6,027	6,032	6,032	
2008	4,596	4,885	4,999	5,058	5,015	5,083	5,128	5,155	5,155	5,155	5,155	
2009	5,603	6,102	6,300	5,839	5,895	6,121	6,135	6,137	6,139	6,142		
2010	6,931	7,575	6,058	5,647	7,219	7,206	7,202	7,169	7,185			
2011	10,285	6,814	5,495	11,215	10,724	10,715	11,434	11,611				
2012	5,130	5,938	10,742	10,723	10,695	10,956	11,217					
2013	5,051	7,156	7,586	7,848	10,263	10,168						
2014	3,592	4,121	4,239	4,411	4,404							
2015	4,785	5,869	6,138	6,187								
2016	4,369	5,243	5,726									
2017	3,147	3,713										
2018	3,304											
ACC												
<u>Year</u>	<u>15-27</u>	<u>27-39</u>	<u>39-51</u>	<u>51-63</u>	<u>63-75</u>	<u>75-87</u>	<u>87-99</u>	<u>99-111</u>	<u>111-123</u>	<u>123-135</u>	<u>135-147</u>	
2007	0.968	1.011	1.001	1.003	1.004	0.992	1.011	1.001	1.001	1.000	1.002	
2008	1.063	1.023	1.012	0.991	1.014	1.009	1.005	1.000	1.000	1.000		
2009	1.089	1.032	0.927	1.010	1.038	1.002	1.000	1.000	1.000			
2010	1.093	0.800	0.932	1.278	0.998	0.999	0.995	1.002				
2011	0.663	0.806	2.041	0.956	0.999	1.067	1.015					
2012	1.158	1.809	0.998	0.997	1.024	1.024						
2013	1.417	1.060	1.035	1.308	0.991							
2014	1.147	1.029	1.041	0.998								
2015	1.227	1.046	1.008									
2016	1.200	1.092										
2017	1.180											
All pt	1.109	1.071	1.110	1.068	1.010	1.016	1.005	1.001	1.000	1.000	1.002	
5 Yr Avg	1.234	1.207	1.224	1.108	1.010	1.020	1.005	1.001				
5 Yr Ex-Hi Lo	1.202	1.066	1.028	1.091	1.007	1.012	1.005					
Selected	1.202	1.066	1.028	1.091	1.007	1.012	1.005	1.000				
Age to Ult	1.473	1.225	1.149	1.118	1.025	1.017	1.005	1.000				

Proposed Effective Date: 01/18/2020 Expected Losses Excess of \$100,000

The incurred losses in the experience are adjusted to smooth out the impact of random large claims. Actual excess losses are removed by capping individual claims at the limit specified above and replaced with expected excess losses.

An Excess Loss Factor (ELF) is calculated as the weighted average Increased Limit Factor (rescaled to a base of the limit specified above) for Liability coverage for each vehicle type. The ELF converts aggregate capped losses to aggregate total losses.

Expected excess losses expressed as a portion of expected total limits losses are given as (ELF -1)/(ELF).

The ELF is converted to an Excess Loss Premium Factor (ELPF) applicable to manual earned premium at present rates. ELPF = (ELF - 1)/(ELF) * (Loss only permissible loss ratio)

	Percentage	Wtd Avg Increased	·		Expected Excess Loss
	HIG UIt BL	Limit Factor	as a % of	Loss Ratio	Prem Factor
Vehicle Type	Inc Loss	(ELF)	Total Premium	(Loss Only)	(ELPF)
TTT Total	65%	1.522	34.3%	51.5%	0.177
All Other Vehicles	35%	1.488	32.8%	51.5%	0.169

	Light & Mediu	ım Trucks		All Other Vehicles
Policy	HIG	Rescaled	HIG	
Limit	Ult BL	Increased	Ult BL	Increased
(\$000)	Inc Loss	Limit Factor	Inc Loss	Limit Factor
100	2.6%	1.00	2.0%	1.00
250	0.0%	1.20	0.5%	1.19
300	3.1%	1.24	2.6%	1.23
400	0.3%	1.31	1.1%	1.30
500	7.4%	1.37	6.6%	1.35
750	0.3%	1.48	0.0%	1.45
1,000	85.7%	1.56	86.8%	1.52
1,500	0.0%	1.68	0.0%	1.63
2,000	0.6%	1.76	0.4%	1.71
2,500	0.0%	1.83	0.0%	1.77
3,000	0.0%	1.89	0.0%	1.82
5,000	0.0%	2.06	0.0%	1.98
7,500	0.0%	2.22	0.0%	2.12
10,000	0.0%	2.36	0.0%	2.23
TOTAL	100%	1.522	100.0%	1.488

Derivation of ELPF for Uninsured Motorists

Percentage of TTT HIGBL Inc Losses

- A. Liability ELF for all vehicle types
- B. Liability ELPF for all vehicle types
- C. Differential between UM and Liability XS %
- D. Umbrella ELPF for all vehicle types

1.51 Wtd avg Liab ELF for TTTs and All Other Vehicles

17.4% (A-1)/A x [Loss only PLR]

1.65 Estimate

0.287 B x C

Proposed Effective Date: 01/18/2020 Development Of Catastrophe Adjustment

			OTC Ex-Cat	OTC Cat Only	Cat loss as a %
	Year	OTC Losses	Losses	Losses	of Ex-Cat Loss
	1990	-	-	-	#DIV/0!
	1991	-	-	-	#DIV/0!
	1992	310	310	-	0%
	1993	61,320	61,320	-	0%
	1994	55,572	55,572	-	0%
	1995	98,183	98,183	-	0%
	1996	150,332	150,332	-	0%
	1997	97,995	97,995	-	0%
	1998	78,742	78,742	-	0%
	1999	168,438	159,479	8,959	6%
	2000	138,967	137,758	1,209	1%
	2001	134,342	129,407	4,935	4%
	2002	86,582	86,582	-	0%
	2003	241,233	171,539	69,694	41%
	2004	84,417	76,548	7,869	10%
	2005	74,584	72,605	1,979	3%
	2006	46,581	46,581	-	0%
	2007	40,057	40,057	-	0%
	2008	48,726	48,726	-	0%
	2009	73,426	73,426	-	0%
	2010	66,451	66,451	-	0%
	2011	88,567	88,567	-	0%
	2012	36,112	24,449	11,663	48%
	2013	35,649	35,649	-	0%
	2014	38,066	38,066	-	0%
	2015	84,555	84,555	-	0%
	2016	65,931	54,999	10,932	20%
	2017	22,372	22,372	-	0%
All Yrs		2,117,510	2,000,270	117,240	6%

Selected Cat Loss adjustment Factor

1.06

State Note

Colorado This is a generic form that cannot be used for Colorado because Colorado is an exempt state

Washington This form must be modified to incorporate the Deviation Table, which can be found in the prior LC Adoption

filing, at the bottom of the Input worksheet

Step 1	Review "Notes" worksheet for possible state specific guidelines
Step 2	Update Link to your state indications file
Step 3	Ascertain PIP status for your state from prior filing
Step 4	Delete PIP worksheet(s) not in your state
Step 5	Update PIP status in Sheets to Print
Step 6	Ascertain UM status from prior filing
Step 7-A	If One (1) UM: Delete sheets "PPT UM" & "NotPPT UM"
Step 7-B	If Two (2) or more UM: Delete sheet "UM"
Step 8	Update UM print status in Sheets to Print
Step 9	Manually input info. wherever font is blue
Step 10	For each worksheet-Place checkmark in appropriate Loss Cost Modification box (C9 or C10)
Step 11	Ensure name of company & coverage on each worksheet is correct.
Step 12	Hi-Light the worksheets that need to be printed
Step 13	Choose File ->Print->Print Active Sheets

		Sheets to Prin	nt	
Page1	YES	Publics LIAB	YES	
TTT LIAB	YES	Publics OTC	YES	
TTT OTC	YES	Publics COLL	YES	
TTT COLL	YES	Garages	YES	
PPT LIAB	YES	TTT PIP	YES	
PPT OTC	YES	PPT PIP	YES	
PPT COLL	YES	Publics PIP	YES	
UM	YES			
PPT UM	YES			
NotPPT UM	YES			

Person Responsible for filing Title **Commercial Auto Actuarial** Phone # 860-547-4538 Line of Insurance **Commercial Automobile** Rating Org. Ref. Filing # CA-2016-BRLA1

		Company Box	
Code	NAIC#	Name	
1	11000	Sentinel Insurance Company, Ltd.	

Keep Modifiers on File Modifiers on File this Filing Only	Check One
Input Company Code Date Filing Submission	1 1/14/2020
Proposed Rate Level Change Proposed Effective Date	6.1% 1/18/2020

*Find in prior filing - Exhibit 1 Sheet 1 *Prior Rate Level Change 6.2% *Find in prior filing - Exhibit 1 Sheet 1 *Effective Date 1/12/2019

Santhi Sulochanannair

				Loss Cost Mod Factor	Prem. Level Change			
Vehicle Type		Coverage		Prop	Prop	İ		
TTT	Liability / Medical Paym	ents / Hired Auto Liability		1.750	4.0%	Ī		
	Other Than Collision			1.120	1.6%			
	Collision			1.000	7.3%			
	Personal Injury Protecti	on		1.081	0.0%			
	Uninsured Motorists			1.700	2.9%			
PPT	Liability and Medical Pa	ayments		1.460	3.7%	1		
	Other Than Collision			1.300	3.8%			
	Collision			1.350	3.7%			
	Personal Injury Protecti	on		1.173	0.0%			
	Uninsured Motorists			1.700	2.9%			
Publics	Liability and Medical Pa	ayments		1.000	14.2%	1		
	Other Than Collision			1.002	0.0%			
	Collision			1.002	0.0%			
	Personal Injury Protecti	on		1.020	0.0%			
	Uninsured Motorists			1.700	2.9%		Impact ISO	Prem. Level Change
Garages &	PL	&LAE/R		LC Mod	d Factor		Base LC	
Statewide Misc.	Current	Prop	ELR Change	Current	Prop	LC Mod Change	Change	Prop
Rates	59.6%	60.8%	-0.020	1.000	1.020	0.020	0.00%	0.0%

Expense	Lia/UM	OTC	Coll	PIP
Commission	16.3%	16.3%	16.3%	16.3%
Other U/W	18.7%	18.7%	18.7%	18.7%
Tax,Lic,Fee	1.7%	1.7%	1.7%	1.7%
Profit	2.5%	5.8%	5.8%	2.5%
Total	39.2%	42.5%	42.5%	39.2%
PL&LAE/R	60.8%	57.5%	57.5%	60.8%

Space Reserved for Insurance	
Department use	

Date: 01/14/20	
----------------	--

INSURER RATE FILING ADOPTION OF ADVISORY ORGANIZATION PROSPECTIVE LOSS COSTS REFERENCE FILING ADOPTION FORM

1.	INSURER NAME	Sentinel Insurance Cor	mpany, Ltd.		
	ADDRESS	One Hartford Plaza			
		Hartford, CT 06155			
	PERSON RESPONSIBLE FO	R FILING	Santhi Sulocha	anannair	
	TITLE Commerc	ial Auto Actuarial		TELEPHONE #	860-547-4538
2.	INSURER NAIC #	11000			
3.	LINE OF INSURANCE	Commerc	cial Automobile		
4.	ADVISORY ORGANIZATION		Insurance Ser	vices Office, Ins.	
5.	ADVISORY ORGANIZATION	REFERENCE FILING #		CA-2016-BRLA1	
6.	The above insurer hereby dec advisory organization for this I independently submitted, as it	ine of insurance. The insu	urer hereby files to	o be deemed to have	
	The insurer's rates will be the and, if utilized, the expense co			and the loss cost multip	pliers
7.	PROPOSED RATE LEVEL CI	HANGE	6.1%	EFFECTIVE DATE	1/18/2020
8.	PRIOR RATE LEVEL CHANG	Ε	6.2%	EFFECTIVE DATE	1/12/2019
9.	ATTACH "SUMMARY OF SUI	PPORTING INFORMATION	ON FORM"		
	(Use a separate Summary for	each insurer-selected los	ss cost multiplier.))	
10.	be appli line of ir prospec constan effective	oWING: rer hereby files to have its cable to future revisions of a surance. The insurer's rative loss costs and the instance tas specified in the attachment of the advisory organization of the advisory organization.	of the advisory orgates will be the co surer's loss cost rements. The rates anization's prospe	ganization's prospective ombination of the advis multipliers and, if utilize will apply to policies we ective loss costs. This	e loss costs for this ory organization's ed, expense ritten on or after the authorization is
		rer hereby files to have its	•		pense constants

Insurer Name:		1/14/20	
NAIC Number:	INSURER RATE FILING ADOPTION OF ADVISORY ORGANIZATION PROSPECTIVE LOSS COSTS SUMMARY OF SUPPORTING INFORMATION FORM CALCULATION OF COMPANY LOSS COST MULTIPLIER		
	ine, Coverage, Territory, Class, etc. combination to which this page applies: al Automobile: TTT Liability / Medical Payments / Hired Auto Liability		
A. The ir	Modification: asurer hereby files to adopt the prospective loss costs in the captioned referer CK ONE) Without modification (factor = 1.000) With the following modification(s). Cite the nature and percent modification supporting data and/or rationale for the modification.	_	
	See supporting exhibits		
	Cost Modification Expressed as a Factor: examples below.)	1.750	
3. Developm	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expense information.)	Selecte	ed
A. T	etal Dradustion Europe	Provision	ons %
	otal Production Expense	16.3 18.7	%
	eneral Expenses axes, Licenses & Fees		/0
	axes. Licenses & Fees		0/
		1.7	%
	nderwriting Profit & Contingencies		%
г. г	nderwriting Profit & Contingencies other (explain)	1.7	%
4 A Expected	nderwriting Profit & Contingencies	1.7	
4 A. Expedied	nderwriting Profit & Contingencies other (explain) OTAL	1.7 2.5 39.2	%
4 D El D in do	nderwriting Profit & Contingencies other (explain) OTAL Loss Ratio: ELR = 100% - 3F =	1.7 2.5 39.2 60.8	%
4 B. ELR in de	nderwriting Profit & Contingencies other (explain) OTAL Loss Ratio: ELR = 100% - 3F =	1.7 2.5 39.2	%
	nderwriting Profit & Contingencies other (explain) OTAL Loss Ratio: ELR = 100% - 3F = cimal form =	1.7 2.5 39.2 60.8 0.608	%
5. Company	nderwriting Profit & Contingencies other (explain) OTAL Loss Ratio: ELR = 100% - 3F = cimal form = Formula Loss Cost Multiplier: (2B ÷ 4B) =	1.7 2.5 39.2 60.8 0.608	%
5. Company 6. Company	nderwriting Profit & Contingencies other (explain) OTAL Loss Ratio: ELR = 100% - 3F = cimal form =	1.7 2.5 39.2 60.8 0.608	%
5. Company 6. Company	nderwriting Profit & Contingencies other (explain) OTAL Loss Ratio: ELR = 100% - 3F = cimal form = Formula Loss Cost Multiplier: (2B ÷ 4B) = Selected Loss Cost Multiplier =	1.7 2.5 39.2 60.8 0.608	%
5. Company 6. Company Explain ar	nderwriting Profit & Contingencies other (explain) OTAL Loss Ratio: ELR = 100% - 3F = cimal form = Formula Loss Cost Multiplier: (2B ÷ 4B) = Selected Loss Cost Multiplier =	1.7 2.5 39.2 60.8 0.608	%

- Example 1: Loss Cost modification factor: If your company's loss cost modification is –10%, a factor of .90 (1.000 .100) should be used.
- Example 2: Loss Cost modification factor: If your company's loss cost modification is +15%, a factor of 1.15 (1.000 + .150) should be used.

	surer Name: AIC Number:	Sentinel Insurance Company, Ltd. 11000 Da	te: 1/14/2	0
INA	AIC Number:	INSURER RATE FILING ADOPTION OF ADVISORY ORGANIZATION PROSPECTIVE LOSS COSTS SUMMARY OF SUPPORTING INFORMATION FO CALCULATION OF COMPANY LOSS COST MULTIPLIE		
1.		ne, Coverage, Territory, Class, etc. combination to which this page ap Automobile: TTT Other Than Collision	oplies:	
2.	A. The ins	Modification: surer hereby files to adopt the prospective loss costs in the captioned K ONE) Without modification (factor = 1.000) With the following modification(s). Cite the nature and percensupporting data and/or rationale for the modification.	_	d attach
		See supporting exhibits		
		ost Modification Expressed as a Factor: xamples below.)		20
01	THER SUPPO Developme	ENSE CONSTANTS ARE UTILIZED, ATTACH "EXPENSE CONST ORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW ont of Expected Loss Ratio. (Attach exhibit detailing insurer ex	'.	
01	THER SUPPO Developme	ORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW	rpense data and/ Sele	
	Developme supporting	ORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW ont of Expected Loss Ratio. (Attach exhibit detailing insurer ex	rpense data and/ Sele	or othei
01	Developme supporting A. To	ORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW int of Expected Loss Ratio. (Attach exhibit detailing insurer exinformation.)	rpense data and/ Sele Provi	or other cted sions
01	Developme supporting A. To B. Ge	ORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW ont of Expected Loss Ratio. (Attach exhibit detailing insurer exinformation.) tal Production Expense	tpense data and/ Sele Provi	or other cted sions
01	Developme supporting A. To B. Ge C. Ta	ORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW ont of Expected Loss Ratio. (Attach exhibit detailing insurer extinformation.) tal Production Expense eneral Expenses & Fees xes, Licenses & Fees	spense data and/ Sele Provi 16.3 18.7	or other
01	A. To B. Ge C. Ta D. Un	ORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW ont of Expected Loss Ratio. (Attach exhibit detailing insurer ex- information.) tal Production Expense eneral Expenses xes, Licenses & Fees iderwriting Profit & Contingencies	spense data and/ Sele Provi 16.3 18.7	or other
01	A. To B. Ge C. Ta D. Un E. Ot	ORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW ont of Expected Loss Ratio. (Attach exhibit detailing insurer extinformation.) tal Production Expense eneral Expenses & Fees xes, Licenses & Fees	spense data and/ Sele Provi 16.3 18.7	or other
01	A. To B. Ge C. Ta D. Un E. Ot	CRTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW ent of Expected Loss Ratio. (Attach exhibit detailing insurer ex- information.) tal Production Expense eneral Expenses exes, Licenses & Fees iderwriting Profit & Contingencies her (explain) OTAL	Sele Provi 16.3 18.7 1.7 5.8	or other
O1 3.	A. To B. Ge C. Ta D. Un E. Ot	control of Expected Loss Ratio. (Attach exhibit detailing insurer extinformation.) Ital Production Expense Internal Expenses Internal Exp	Sele Provi 16.3 18.7 1.7 5.8	or other cted sions % % % % % %
O1 3.	A. To B. Ge C. Ta D. Un E. Ot F. TO A. Expected L B. ELR in deci	control of Expected Loss Ratio. (Attach exhibit detailing insurer extinformation.) Ital Production Expense Internal Expenses Internal Exp	Sele Provi 16.3 18.7 1.7 5.8 42.5	or other cted sions % % % % % %

Example 1: Loss Cost modification factor: If your company's loss cost modification is –10%, a factor of .90 (1.000 - .100) should be used.

Insurer Na		ate:1/14/20
NAIC Num	INSURER RATE FILING ADOPTION OF ADVISORY ORGANIZATION PROSPECTIVE LOSS COSTS SUMMARY OF SUPPORTING INFORMATION FO CALCULATION OF COMPANY LOSS COST MULTIPLIE	
-	Subline, Coverage, Territory, Class, etc. combination to which this page a ercial Automobile: TTT Collision	pplies:
A. Th	Cost Modification: ne insurer hereby files to adopt the prospective loss costs in the captioned (HECK ONE) Without modification (factor = 1.000) With the following modification(s). Cite the nature and percer supporting data and/or rationale for the modification. 0.0%	-
R Io	oss Cost Modification Expressed as a Factor:	1.000
OTHER SU	EXPENSE CONSTANTS ARE UTILIZED, ATTACH "EXPENSE CONS' JPPORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOV opment of Expected Loss Ratio. (Attach exhibit detailing insurer exting information.)	V.
		Provisions
Α.	Total Production Expense	16.3 %
B.	General Expenses	18.7 %
C.	Taxes, Licenses & Fees	1.7 %
D.	Underwriting Profit & Contingencies	5.8 %
E.	Other (explain)	%
F.	TOTAL	42.5 %
<u> </u>		•
4 A. Expec		
4 B. ELR in	ted Loss Ratio: ELR = 100% - 3F =	57.5 %
	ted Loss Ratio: ELR = 100% - 3F =	57.5 % 0.575
	any Formula Loss Cost Multiplier: (2B ÷ 4B) =	
6. Compa	decimal form =	0.575
6. Compa Explaii	any Formula Loss Cost Multiplier: (2B ÷ 4B) = any Selected Loss Cost Multiplier =	0.575

Loss Cost modification factor: If your company's loss cost modification is -10%, a factor of Example 1:

.90 (1.000 - .100) should be used.

_	urer Name:	Sentinel Insurance Company, Ltd.	Date:	1/14/20	
INA	IC Number:	INSURER RATE FILING ADOPTION OF ADVISORY ORGANIZAT PROSPECTIVE LOSS COSTS SUMMARY OF SUPPORTING INFORMAT CALCULATION OF COMPANY LOSS COST M	TION FORM		
1.		e, Coverage, Territory, Class, etc. combination to which th Automobile: PPT Liability and Medical Payments	is page applies:		
2.	(CHEC	urer hereby files to adopt the prospective loss costs in the K ONE) Without modification (factor = 1.000) With the following modification(s). Cite the nature ar supporting data and/or rationale for the modification. 46.0%	·	·	attach
		See supporting exhibits			
	(See ex OTE: IF EXPE CHER SUPPO	ost Modification Expressed as a Factor: camples below.) ENSE CONSTANTS ARE UTILIZED, ATTACH "EXPENSION OF THE PROPERTIES OF THE PROPERTIE	7 BELOW.		
	11 3	,		Selecte	
				Provisio	
		tal Production Expense		16.3	%
		neral Expenses		18.7	%
		kes, Licenses & Fees		1.7	%
		derwriting Profit & Contingencies		2.5	%
		ner (explain)			%
	F. TO	TAL		39.2	%
Λ Δ	Evnected L	D-ti-: FLD 4000/ 0F		60.8	%
	B. ELR in deci	DSS RATIO: FLR = 100% - 3F =			
	. LLIV III GOOI	oss Ratio: ELR = 100% - 3F = mal form =		+	
5.	Company F			0.608	
		mal form =		+	
6.		mal form = ormula Loss Cost Multiplier: (2B ÷ 4B) = elected Loss Cost Multiplier =		0.608	
		mal form = ormula Loss Cost Multiplier: (2B ÷ 4B) =		0.608 2.401	
		mal form = ormula Loss Cost Multiplier: (2B ÷ 4B) = elected Loss Cost Multiplier =		0.608 2.401	

Loss Cost modification factor: If your company's loss cost modification is -10%, a factor of Example 1:

.90 (1.000 - .100) should be used.

	ırer Name: C Number:	Sentinel Insurance Company, Ltd. Date:	1/14/20	
IVAI	C Number.	INSURER RATE FILING ADOPTION OF ADVISORY ORGANIZATION PROSPECTIVE LOSS COSTS SUMMARY OF SUPPORTING INFORMATION FORM CALCULATION OF COMPANY LOSS COST MULTIPLIER		
1.		e, Coverage, Territory, Class, etc. combination to which this page applies: Automobile: PPT Other Than Collision		
2.	(CHEC	urer hereby files to adopt the prospective loss costs in the captioned reference	-	attach
		See supporting exhibits		
	B. Loss Co	ost Modification Expressed as a Factor:	1.300	ı
	HER SUPPO	ENSE CONSTANTS ARE UTILIZED, ATTACH "EXPENSE CONSTANT SUPERING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. Int of Expected Loss Ratio. (Attach exhibit detailing insurer expense of information.)		other
			Provisi	
	A. To	tal Production Expense	16.3	%
		neral Expenses	18.7	%
	C. Tax	kes, Licenses & Fees	1.7	%
	D. Un	derwriting Profit & Contingencies	5.8	%
	E. Oth	ner (explain)		%
	F. TO	TAL	42.5	%
4 A.	Expected Lo	oss Ratio: ELR = 100% - 3F =	57.5	%
4 B	ELR in deci	mal form =	0.575	
5. 6.	Company S	ormula Loss Cost Multiplier: (2B ÷ 4B) = elected Loss Cost Multiplier =	2.261 2.261	
	Explain any	differences between 5 and 6:		

Example 1: Loss Cost modification factor: If your company's loss cost modification is –10%, a factor of .90 (1.000 - .100) should be used.

Rate level change for the coverages to which this page applies

Example 2: Loss Cost modification factor: If your company's loss cost modification is +15%, a factor of 1.15 (1.000 + .150) should be used.

3.8%

	urer Name: Sentinel Insurance Company, Ltd. Date:	1/14/20	
INA	INSURER RATE FILING ADOPTION OF ADVISORY ORGANIZATION PROSPECTIVE LOSS COSTS SUMMARY OF SUPPORTING INFORMATION FORM CALCULATION OF COMPANY LOSS COST MULTIPLIER		
1.	Line, Subline, Coverage, Territory, Class, etc. combination to which this page applies: Commercial Automobile: PPT Collision		
2.	Loss Cost Modification: A. The insurer hereby files to adopt the prospective loss costs in the captioned reference (CHECK ONE) Without modification (factor = 1.000) With the following modification(s). Cite the nature and percent modification supporting data and/or rationale for the modification. 35.0% See supporting exhibits	-	attach
	B. Loss Cost Modification Expressed as a Factor:	1.350	1
	TE: IF EXPENSE CONSTANTS ARE UTILIZED, ATTACH "EXPENSE CONSTANT SUF HER SUPPORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. Development of Expected Loss Ratio. (Attach exhibit detailing insurer expense de supporting information.)		other ed
	A. Total Production Expense	16.3	%
	B. General Expenses	18.7	%
	C. Taxes, Licenses & Fees	1.7	%
	D. Underwriting Profit & Contingencies	5.8	%
	E. Other (explain)	0.0	%
	F. TOTAL	42.5	%
4 A	. Expected Loss Ratio: ELR = 100% - 3F =	57.5	%
_	ELR in decimal form =	0.575	
5. 6.	Company Formula Loss Cost Multiplier: (2B ÷ 4B) = Company Selected Loss Cost Multiplier = Explain any differences between 5 and 6:	2.348 2.348	

Example 1: Loss Cost modification factor: If your company's loss cost modification is –10%, a factor of .90 (1.000 - .100) should be used.

Rate level change for the coverages to which this page applies

Example 2: Loss Cost modification factor: If your company's loss cost modification is +15%, a factor of 1.15 (1.000 + .150) should be used.

3.7%

Ins	surer Name:	Sentinel Insurance Company, Ltd.	Date: 1/14/20	
NΑ	AIC Number:	INSURER RATE FILING ADOPTION OF ADVISORY ORGANIZATION		
		PROSPECTIVE LOSS COSTS SUMMARY OF SUPPORTING INFORMATION F CALCULATION OF COMPANY LOSS COST MULTIPL		
1.		e, Coverage, Territory, Class, etc. combination to which this page Automobile: Publics Liability and Medical Payments	applies:	
2.	(CHEC	urer hereby files to adopt the prospective loss costs in the caption	-	attach
		ost Modification Expressed as a Factor: camples below.)	1.000)
3.		ORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELO nt of Expected Loss Ratio. (Attach exhibit detailing insurer nformation.)	expense data and/or	ed
	A. Tot	tal Production Evange	Provisi	ons %
		tal Production Expense neral Expenses	16.3	//
		xes, Licenses & Fees	18.7	%
		derwriting Profit & Contingencies	1.7	//
		ner (explain)	2.5	%
	F. TO		39.2	%
	10	ΙΔΙ	JJ.2	,,,
4 <i>F</i>	ـــــــــــــــــــــــــــــــــــــ	IAL		
	B. ELR in deci		60.8	%
5.		oss Ratio: ELR = 100% - 3F =	60.8 0.608	%
		oss Ratio: ELR = 100% - 3F = mal form =	0.608	%
6.		oss Ratio: ELR = 100% - 3F = mal form = ormula Loss Cost Multiplier: (2B ÷ 4B) =	0.608	%
6.	Company S	oss Ratio: ELR = 100% - 3F = mal form =	0.608	%
6. 7.	Company S Explain any	oss Ratio: ELR = 100% - 3F = mal form = ormula Loss Cost Multiplier: (2B ÷ 4B) = elected Loss Cost Multiplier =	0.608	%

Example 1: Loss Cost modification factor: If your company's loss cost modification is –10%, a factor of

.90 (1.000 - .100) should be used.

_	urer Name:	Sentinel Insurance Company, Ltd.	e: 1/14/20	
NA	IC Number:	INSURER RATE FILING ADOPTION OF ADVISORY ORGANIZATION PROSPECTIVE LOSS COSTS SUMMARY OF SUPPORTING INFORMATION FOR CALCULATION OF COMPANY LOSS COST MULTIPLIER		
1.		ne, Coverage, Territory, Class, etc. combination to which this page ap Automobile: Publics Other Than Collision	plies:	
2.	A. The ins	Modification: surer hereby files to adopt the prospective loss costs in the captioned ck ONE) Without modification (factor = 1.000) With the following modification(s). Cite the nature and percent supporting data and/or rationale for the modification.	-	attach
		See supporting exhibits cost Modification Expressed as a Factor:		
	(366.6)	xamples below.)		
ОТ	THER SUPPO Developme	ENSE CONSTANTS ARE UTILIZED, ATTACH "EXPENSE CONSTANTS ORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. ent of Expected Loss Ratio. (Attach exhibit detailing insurer expinformation.)	pense data and/or	othe
ОТ	THER SUPPO Developme	ORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. ent of Expected Loss Ratio. (Attach exhibit detailing insurer expected to the complete items and the complete items and the complete items and the complete items are completely insured in the complete items.)	•	other
	Developme supporting	ORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. ent of Expected Loss Ratio. (Attach exhibit detailing insurer expinformation.)	pense data and/or Selec t	other
ОТ	Developme supporting A. To	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expinformation.)	pense data and/or Select Provisi	other ted ons
ОТ	Developme supporting A. To B. Ge	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expinformation.) otal Production Expense eneral Expenses	pense data and/or Select Provisi 16.3	other ted ons
ОТ	Developme supporting A. To B. Get C. Ta	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expinformation.) etal Production Expense eneral Expenses exes, Licenses & Fees	pense data and/or Select Provisi 16.3 18.7	other
ОТ	Developme supporting A. To B. Ge C. Ta D. Ur	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expinformation.) otal Production Expense eneral Expenses exes, Licenses & Fees inderwriting Profit & Contingencies	pense data and/or Select Provisi 16.3 18.7 1.7	other
ОТ	Developme supporting A. To B. Ge C. Ta D. Ur E. Ot	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expinformation.) Intelligence of the production of the pr	pense data and/or Select Provisi 16.3 18.7 1.7 5.8	other ted ons % % % % %
ОТ	Developme supporting A. To B. Ge C. Ta D. Ur E. Ot	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expinformation.) otal Production Expense eneral Expenses exes, Licenses & Fees inderwriting Profit & Contingencies	pense data and/or Select Provisi 16.3 18.7 1.7	other ted ons % % %
ОТ 3.	A. To B. Ge C. Ta D. Ur E. Ot F. To	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expiniformation.) Interest of Expected Loss Ratio. (Attach exhibit detailing insurer expiniformation.) Interest of Expected Loss Ratio. (Attach exhibit detailing insurer expiniformation.) Interest of Expected Loss Ratio. (Attach exhibit detailing insurer expiniformation.)	Select Provisi 16.3 18.7 1.7 5.8	other
ОТ 3.	A. To B. Ge C. Ta D. Ur E. Ot F. TO	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expiniformation.) Intelligence of Expense expenses Expenses & Fees Inderwriting Profit & Contingencies her (explain) Intelligence of Expenses Intelligence of E	Pense data and/or Select Provisi 16.3 18.7 1.7 5.8 42.5	other ted ons % % % % %
ОТ 3.	A. To B. Ge C. Ta D. Ur E. Ot F. To	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expiniformation.) Intelligence of Expense expenses Expenses & Fees Inderwriting Profit & Contingencies her (explain) Intelligence of Expenses Intelligence of E	Select Provisi 16.3 18.7 1.7 5.8	other
OT 3.	A. To B. Ge C. Ta D. Ur E. Ot F. TO S. Expected L. S. ELR in dec	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expinformation.) etal Production Expense eneral Expenses exes, Licenses & Fees inderwriting Profit & Contingencies her (explain) OTAL coss Ratio: ELR = 100% - 3F = imal form =	Pense data and/or Select Provisi 16.3 18.7 1.7 5.8 42.5	other
3. 4 A 4 E	Developme supporting A. To B. Ge C. Ta D. Ur E. Ot F. TO S. Expected L. B. ELR in dec	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expiniformation.) Intelligence of Expense expenses Expenses & Fees Inderwriting Profit & Contingencies her (explain) Intelligence of Expenses Intelligence of E	Select Provisi 16.3 18.7 1.7 5.8 42.5	other
ОТ 3.	A. To B. Ge C. Ta D. Ur E. Ot F. TO S. Expected L. S. ELR in dec Company F. Company S.	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expinformation.) Interest Production Expense Eneral Expenses Exes, Licenses & Fees Inderwriting Profit & Contingencies Interest Production Expense Interest Product	Selection Provision 16.3 18.7 1.7 5.8 42.5 57.5 0.575	other
3. 4 A 4 E	A. To B. Ge C. Ta D. Ur E. Ot F. TO S. Expected L. S. ELR in dec Company F. Company S.	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expiniformation.) Intelligence of Expense expense expenses expenses are seen expenses expense	Selection Provision 16.3 18.7 1.7 5.8 42.5 57.5 0.575	other

- Example 1: Loss Cost modification factor: If your company's loss cost modification is –10%, a factor of .90 (1.000 .100) should be used.
- Example 2: Loss Cost modification factor: If your company's loss cost modification is +15%, a factor of 1.15 (1.000 + .150) should be used.

_	urer Name: IC Number:	Sentinel Insurance Company, Ltd. Date:	1/14/20	
IN.A	nc number.	INSURER RATE FILING ADOPTION OF ADVISORY ORGANIZATION PROSPECTIVE LOSS COSTS SUMMARY OF SUPPORTING INFORMATION FORM CALCULATION OF COMPANY LOSS COST MULTIPLIER	I	
1.		ne, Coverage, Territory, Class, etc. combination to which this page applie Automobile: Publics Collision	es:	
2.	A. The ins	Modification: surer hereby files to adopt the prospective loss costs in the captioned refect ONE) Without modification (factor = 1.000) With the following modification(s). Cite the nature and percent m supporting data and/or rationale for the modification.	-	attach
		See supporting exhibits		
	THER SUPPO Developme	ENSE CONSTANTS ARE UTILIZED, ATTACH "EXPENSE CONSTANT ORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. ent of Expected Loss Ratio. (Attach exhibit detailing insurer expension information.)	se data and/or	other
ОТ	THER SUPPO Developme	ORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. ent of Expected Loss Ratio. (Attach exhibit detailing insurer expen	se data and/or Select	other ed
ОТ	Developme supporting	ORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. ent of Expected Loss Ratio. (Attach exhibit detailing insurer expeninformation.)	se data and/or Select Provisi	other ed ons
ОТ	Developme supporting A. To	ORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. ent of Expected Loss Ratio. (Attach exhibit detailing insurer expeninformation.) etal Production Expense	se data and/or Select Provision 16.3	other ed ons
ОТ	Developme supporting A. To B. Ge	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expension information.) otal Production Expense eneral Expenses	Se data and/or Select Provision 16.3 18.7	othered ons %
ОТ	Developme supporting A. To B. Get C. Ta	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expension information.) etal Production Expense eneral Expenses (xes, Licenses & Fees)	se data and/or Select Provision 16.3 18.7 1.7	other ed ons % %
ОТ	Developme supporting A. To B. Ge C. Ta D. Ur	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expension information.) otal Production Expense eneral Expenses exes, Licenses & Fees inderwriting Profit & Contingencies	Se data and/or Select Provision 16.3 18.7	other ed ons % % % %
ОТ	A. To B. Ge C. Ta D. Un E. Ot	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expension information.) etal Production Expense eneral Expenses exes, Licenses & Fees enderwriting Profit & Contingencies ther (explain)	Select Provision 16.3 18.7 1.7 5.8	other ed ons % % % %
ОТ	A. To B. Ge C. Ta D. Un E. Ot	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expension information.) otal Production Expense eneral Expenses exes, Licenses & Fees inderwriting Profit & Contingencies	se data and/or Select Provision 16.3 18.7 1.7	other ed ons % % % %
OT 3.	A. To B. Ge C. Ta D. Un E. Ot F. TO	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expension information.) Stal Production Expense Eneral Expenses Exes, Licenses & Fees Enderwriting Profit & Contingencies Ther (explain) OTAL	Select Provision 16.3 18.7 1.7 5.8	other ed ons % % % % % %
OT 3.	A. To B. Ge C. Ta D. Un E. Ot F. TO	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expension information.) etal Production Expense eneral Expenses exes, Licenses & Fees enderwriting Profit & Contingencies ther (explain) OTAL coss Ratio: ELR = 100% - 3F =	Se data and/or Select Provision 16.3 18.7 1.7 5.8 42.5	other ed ons % % % %
OT 3.	A. To B. Ge C. Ta D. Un E. Ot F. TO	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expension information.) etal Production Expense eneral Expenses exes, Licenses & Fees enderwriting Profit & Contingencies ther (explain) OTAL coss Ratio: ELR = 100% - 3F =	Select Provision 16.3 18.7 1.7 5.8	other ed ons % % % % % %
3. 4 A 4 E	A. To B. Ge C. Ta D. Un E. Ot F. TO A. Expected L B. ELR in dec	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expension information.) etal Production Expense eneral Expenses exes, Licenses & Fees inderwriting Profit & Contingencies ther (explain) OTAL coss Ratio: ELR = 100% - 3F = imal form =	Se data and/or Select Provision 16.3 18.7 1.7 5.8 42.5	other ed ons % % % % % %
OT 3.	A. To B. Ge C. Ta D. Un E. Ot F. TO A. Expected L B. ELR in dec	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expension information.) etal Production Expense eneral Expenses exes, Licenses & Fees enderwriting Profit & Contingencies ther (explain) OTAL coss Ratio: ELR = 100% - 3F =	Se data and/or Select Provision 16.3 18.7 1.7 5.8 42.5 57.5 0.575	other ed ons % % % % % %
3. 4 A 4 E 5.	A. To B. Ge C. Ta D. Un E. Ot F. TO A. Expected L B. ELR in dec Company F Company S	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expension information.) etal Production Expense eneral Expenses exes, Licenses & Fees enderwriting Profit & Contingencies ther (explain) OTAL coss Ratio: ELR = 100% - 3F = imal form = Formula Loss Cost Multiplier: (2B ÷ 4B) =	Se data and/or Select Provision 16.3 18.7 1.7 5.8 42.5 57.5 0.575	other ed ons % % % % % %
3. 4 A 4 E 5.	A. To B. Ge C. Ta D. Un E. Ot F. TO A. Expected L B. ELR in dec Company F Company S	ent of Expected Loss Ratio. (Attach exhibit detailing insurer expension information.) Intelligence of Expected Loss Ratio. (Attach exhibit detailing insurer expension information.) Intelligence of Expense of Expense of Expenses of E	Se data and/or Select Provision 16.3 18.7 1.7 5.8 42.5 57.5 0.575	other ed ons % % % % % %

Example 1: Loss Cost modification factor: If your company's loss cost modification is –10%, a factor of .90 (1.000 - .100) should be used.

_	surer Name: Sentinel Insurance Company, Ltd. Date:	1/14/20	
INA	INSURER RATE FILING ADOPTION OF ADVISORY ORGANIZATION PROSPECTIVE LOSS COSTS SUMMARY OF SUPPORTING INFORMATION FORM CALCULATION OF COMPANY LOSS COST MULTIPLIER		
1.	Line, Subline, Coverage, Territory, Class, etc. combination to which this page applies: Commercial Automobile: Uninsured Motorists		
2.	A. The insurer hereby files to adopt the prospective loss costs in the captioned refere (CHECK ONE) Without modification (factor = 1.000) With the following modification(s). Cite the nature and percent mod supporting data and/or rationale for the modification. 70.0%	•	ittach
	See supporting exhibits		
	B. Loss Cost Modification Expressed as a Factor: (See examples below.) OTE: IF EXPENSE CONSTANTS ARE UTILIZED, ATTACH "EXPENSE CONSTANT: THER SUPPORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. Development of Expected Loss Ratio. (Attach exhibit detailing insurer expense supporting information.)		
	supporting information.)		Oli iei
		Selecte	
		Selecte Provisio	ed
	A. Total Production Expense		ed
	A. Total Production Expense B. General Expenses	Provisio	ed ns
		Provisio	ed ns %
	B. General Expenses	Provisio 16.3 18.7	ed ns %
	B. General Expenses C. Taxes, Licenses & Fees	Provisio 16.3 18.7 1.7	ed ns % %
	B. General Expenses C. Taxes, Licenses & Fees D. Underwriting Profit & Contingencies	Provisio 16.3 18.7 1.7	% % %
	B. General Expenses C. Taxes, Licenses & Fees D. Underwriting Profit & Contingencies E. Other (explain)	Provisio 16.3 18.7 1.7 2.5	% % % % %
<u> </u>	B. General Expenses C. Taxes, Licenses & Fees D. Underwriting Profit & Contingencies E. Other (explain)	Provisio 16.3 18.7 1.7 2.5	% % % % %
	B. General Expenses C. Taxes, Licenses & Fees D. Underwriting Profit & Contingencies E. Other (explain) F. TOTAL	Provisio 16.3 18.7 1.7 2.5 39.2	% % % %
	B. General Expenses C. Taxes, Licenses & Fees D. Underwriting Profit & Contingencies E. Other (explain) F. TOTAL A. Expected Loss Ratio: ELR = 100% - 3F = B. ELR in decimal form = Company Formula Loss Cost Multiplier: (2B ÷ 4B) =	Provisio 16.3 18.7 1.7 2.5 39.2	% % % %
4 E 5.	B. General Expenses C. Taxes, Licenses & Fees D. Underwriting Profit & Contingencies E. Other (explain) F. TOTAL A. Expected Loss Ratio: ELR = 100% - 3F = B. ELR in decimal form = Company Formula Loss Cost Multiplier: (2B ÷ 4B) = Company Selected Loss Cost Multiplier =	Provisio 16.3 18.7 1.7 2.5 39.2 60.8 0.608 2.796	% % % %

Example 1: Loss Cost modification factor: If your company's loss cost modification is –10%, a factor of .90 (1.000 - .100) should be used.

		ate: 1/14/20	
NAIC Num	ber: 11000 INSURER RATE FILING ADOPTION OF ADVISORY ORGANIZATION PROSPECTIVE LOSS COSTS SUMMARY OF SUPPORTING INFORMATION FO CALCULATION OF COMPANY LOSS COST MULTIPLIE		
	Subline, Coverage, Territory, Class, etc. combination to which this page apercial Automobile: Garages & Statewide Misc. Rates	oplies:	
A. Th	Cost Modification: ne insurer hereby files to adopt the prospective loss costs in the captioned CHECK ONE) Without modification (factor = 1.000) With the following modification(s). Cite the nature and percent supporting data and/or rationale for the modification. 2.0%	-	attach
	See supporting exhibits		
(S NOTE: IF OTHER SI 3. Develo	ess Cost Modification Expressed as a Factor: see examples below.) EXPENSE CONSTANTS ARE UTILIZED, ATTACH "EXPENSE CONST JPPORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW	I.	" OR
suppo	opment of Expected Loss Ratio. (Attach exhibit detailing insurer ex rting information.)		
suppo	·	Selecte	ed
	rting information.)	Selecte Provisio	ed ons
Α.	rting information.) Total Production Expense	Selecte Provisio	ed ons %
A. B.	Total Production Expense General Expenses	Selecte Provisio 16.3 18.7	ed ons %
A. B. C.	Total Production Expense General Expenses Taxes, Licenses & Fees	Selecte Provisio 16.3 18.7 1.7	ed ons % %
A. B. C. D.	Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies	Selecte Provisio 16.3 18.7	% % % %
A. B. C. D.	Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain)	Selecte Provisio 16.3 18.7 1.7 2.5	% % % %
A. B. C. D.	Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies	Selecte Provisio 16.3 18.7 1.7	% % % %
A. B. C. D. E.	Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain) TOTAL	Selecte Provisio 16.3 18.7 1.7 2.5	% % % % % %
A. B. C. D. E. F.	Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain) TOTAL ted Loss Ratio: ELR = 100% - 3F =	Selecte Provisio 16.3 18.7 1.7 2.5 39.2	% % % %
A. B. C. D. E. F.	Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain) TOTAL	Selecte Provisio 16.3 18.7 1.7 2.5	% % % % % %
A. B. C. D. E. F. 4 A. Expec	Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain) TOTAL ted Loss Ratio: ELR = 100% - 3F =	Selecte Provisio 16.3 18.7 1.7 2.5 39.2	% % % % % %
A. B. C. D. E. F. 4 A. Expect 4 B. ELR in 5. Compa	Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain) TOTAL ted Loss Ratio: ELR = 100% - 3F =	Selecte Provisio 16.3 18.7 1.7 2.5 39.2 60.8 0.608	% % % % % %
A. B. C. D. E. F. 4 A. Expect 4 B. ELR in 5. Compa 6. Compa Explain	Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain) TOTAL ted Loss Ratio: ELR = 100% - 3F = 1000 decimal form = 100	Selecte Provisio 16.3 18.7 1.7 2.5 39.2 60.8 0.608 1.678	% % % % % %

Loss Cost modification factor: If your company's loss cost modification is -10%, a factor of Example 1:

.90 (1.000 - .100) should be used.

Insurer N		1/14/20	
NAIC Nu	INSURER RATE FILING ADOPTION OF ADVISORY ORGANIZATION PROSPECTIVE LOSS COSTS SUMMARY OF SUPPORTING INFORMATION FORM CALCULATION OF COMPANY LOSS COST MULTIPLIER		
	, Subline, Coverage, Territory, Class, etc. combination to which this page applies: mercial Automobile: TTT Personal Injury Protection		
A.	Cost Modification: The insurer hereby files to adopt the prospective loss costs in the captioned reference (CHECK ONE) Without modification (factor = 1.000) With the following modification(s). Cite the nature and percent modification data and/or rationale for the modification. 8.1%	-	attach
	See supporting exhibits		
	Loss Cost Modification Expressed as a Factor: (See examples below.)	1.081	
	F EXPENSE CONSTANTS ARE UTILIZED, ATTACH "EXPENSE CONSTANT SU	JPPLEMEN1	Γ" OR
OTHER 3. Deve	F EXPENSE CONSTANTS ARE UTILIZED, ATTACH "EXPENSE CONSTANT SUSPENSION OF COMPLETE ITEMS 3-7 BELOW. elopment of Expected Loss Ratio. (Attach exhibit detailing insurer expense operating information.)	data and/or Select	other ed
OTHER 3. Deversupp	SUPPORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. elopment of Expected Loss Ratio. (Attach exhibit detailing insurer expense operating information.)	data and/or Select	other ed ons
OTHER 3. Deversupp	SUPPORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. elopment of Expected Loss Ratio. (Attach exhibit detailing insurer expense operating information.) Total Production Expense	data and/or Select	other ed ons
OTHER 3. Deversible Supplements A. B.	SUPPORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. elopment of Expected Loss Ratio. (Attach exhibit detailing insurer expense operating information.) Total Production Expense General Expenses	data and/or Select	othered ons %
3. Deversible Supplement Suppleme	SUPPORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. elopment of Expected Loss Ratio. (Attach exhibit detailing insurer expense operating information.) Total Production Expense General Expenses Taxes, Licenses & Fees	data and/or Selecte Provision 16.3	other ed ons % %
3. Deversible Supplement of Su	SUPPORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. elopment of Expected Loss Ratio. (Attach exhibit detailing insurer expense operating information.) Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies	Selection Provision 16.3	other ed ons % % %
A. B. C. D. E.	SUPPORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. elopment of Expected Loss Ratio. (Attach exhibit detailing insurer expense operating information.) Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain)	Select Provision 16.3 18.7 1.7	other ed ons % % % % %
3. Deversible Supplement of Su	SUPPORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. elopment of Expected Loss Ratio. (Attach exhibit detailing insurer expense operating information.) Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies	Select Provision 16.3 18.7 1.7	other ed ons % % %
A. B. C. D. E.	SUPPORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. elopment of Expected Loss Ratio. (Attach exhibit detailing insurer expense operating information.) Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain) TOTAL	Select Provision 16.3 18.7 1.7 2.5	other ed ons % % % % % %
A. B. C. D. E. F.	SUPPORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. elopment of Expected Loss Ratio. (Attach exhibit detailing insurer expense operating information.) Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain) TOTAL ected Loss Ratio: ELR = 100% - 3F =	Selection Provision 16.3 18.7 1.7 2.5	other ed ons % % % % %
A. B. C. D. E. F.	SUPPORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. elopment of Expected Loss Ratio. (Attach exhibit detailing insurer expense operating information.) Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain) TOTAL	Select Provision 16.3 18.7 1.7 2.5	other ed ons % % % % % %
A. B. C. D. E. F. 4 A. Expe	SUPPORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. elopment of Expected Loss Ratio. (Attach exhibit detailing insurer expense coorting information.) Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain) TOTAL ected Loss Ratio: ELR = 100% - 3F = in decimal form =	Selection Provision 16.3 18.7 1.7 2.5 39.2 60.8 0.608	other ed ons % % % % % %
A. B. C. D. E. F. 4 A. Exp. 4 B. ELR	SUPPORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. elopment of Expected Loss Ratio. (Attach exhibit detailing insurer expense operating information.) Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain) TOTAL ected Loss Ratio: ELR = 100% - 3F = in decimal form =	Select Provision 16.3 18.7 1.7 2.5 39.2 60.8 0.608	other ed ons % % % % % %
A. B. C. D. E. F. 4 A. Experts 4 B. ELR 5. Com 6. Com	SUPPORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. elopment of Expected Loss Ratio. (Attach exhibit detailing insurer expense coorting information.) Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain) TOTAL ected Loss Ratio: ELR = 100% - 3F = in decimal form =	Selection Provision 16.3 18.7 1.7 2.5 39.2 60.8 0.608	other ed ons % % % % % %
A. B. C. D. E. F. 4 A. Experts 4 B. ELR 5. Com 6. Com	SUPPORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. elopment of Expected Loss Ratio. (Attach exhibit detailing insurer expense operating information.) Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain) TOTAL ected Loss Ratio: ELR = 100% - 3F = in decimal form = hpany Formula Loss Cost Multiplier: (2B ÷ 4B) = hpany Selected Loss Cost Multiplier =	Select Provision 16.3 18.7 1.7 2.5 39.2 60.8 0.608	other ed ons % % % % % %
A. B. C. D. E. F. 4 A. Experts 4 B. ELR 5. Com 6. Com	SUPPORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW. elopment of Expected Loss Ratio. (Attach exhibit detailing insurer expense operating information.) Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain) TOTAL ected Loss Ratio: ELR = 100% - 3F = in decimal form = hpany Formula Loss Cost Multiplier: (2B ÷ 4B) = hpany Selected Loss Cost Multiplier =	Select Provision 16.3 18.7 1.7 2.5 39.2 60.8 0.608	other ed ons % % % % % %

Example 1: Loss Cost modification factor: If your company's loss cost modification is –10%, a factor of

.90 (1.000 - .100) should be used.

NAIC Nur	ame: Sentinel Insurance Company, Ltd. Date:	1/14/20	
TV TO TVO	INSURER RATE FILING ADOPTION OF ADVISORY ORGANIZATION PROSPECTIVE LOSS COSTS SUMMARY OF SUPPORTING INFORMATION FORM CALCULATION OF COMPANY LOSS COST MULTIPLIER	Л	
	Subline, Coverage, Territory, Class, etc. combination to which this page applic nercial Automobile: PPT Personal Injury Protection	es:	
A. T	Cost Modification: The insurer hereby files to adopt the prospective loss costs in the captioned ref CHECK ONE) Without modification (factor = 1.000) With the following modification(s). Cite the nature and percent m supporting data and/or rationale for the modification.	-	attach
	See supporting exhibits		
NOTE: IF	See examples below.) EXPENSE CONSTANTS ARE UTILIZED, ATTACH "EXPENSE CONSTAN SUPPORTING INFORMATION. DO NOT COMPLETE ITEMS 3-7 BELOW.	T SUPPLEMENT	" OR
	lopment of Expected Loss Ratio. (Attach exhibit detailing insurer exper orting information.)		
	· · · · · · · · · · · · · · · · · · ·	Selecte	ed
	orting information.)		ed
suppo	Total Production Expense	Selecte Provisio	ed ons
suppo	Total Production Expense General Expenses	Selecte Provision 16.3	ed ons %
A. B. C.	Total Production Expense General Expenses Taxes, Licenses & Fees	Selecte Provisio 16.3 18.7 1.7	ed ons % %
A. B. C.	Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies	Selecte Provisio 16.3 18.7	ed ons %
A. B. C. D.	Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain)	Selecte Provisio 16.3 18.7 1.7 2.5	ed ons % % % % % %
A. B. C.	Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies	Selecte Provisio 16.3 18.7 1.7	% % %
A. B. C. D. E.	Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain) TOTAL	Selecte Provisio 16.3 18.7 1.7 2.5 39.2	ed ons % % % % % %
A. B. C. D. E. F.	Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain) TOTAL cted Loss Ratio: ELR = 100% - 3F =	Selecte Provisio 16.3 18.7 1.7 2.5 39.2	% % % %
A. B. C. D. E. F.	Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain) TOTAL	Selecte Provisio 16.3 18.7 1.7 2.5 39.2	% % % %
A. B. C. D. E. F.	Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain) TOTAL cted Loss Ratio: ELR = 100% - 3F =	Selecte Provisio 16.3 18.7 1.7 2.5 39.2	% % % %
A. B. C. D. E. F. 4 A. Expe	Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain) TOTAL cted Loss Ratio: ELR = 100% - 3F = n decimal form =	Selecte Provisio 16.3 18.7 1.7 2.5 39.2 60.8 0.608	% % % %
A. B. C. D. E. F. 4 A. Expe	Total Production Expense General Expenses Taxes, Licenses & Fees Underwriting Profit & Contingencies Other (explain) TOTAL cted Loss Ratio: ELR = 100% - 3F = In decimal form = Dany Formula Loss Cost Multiplier: (2B ÷ 4B) = Dany Selected Loss Cost Multiplier =	Selecte Provisio 16.3 18.7 1.7 2.5 39.2 60.8 0.608 1.930	% % % %

Loss Cost modification factor: If your company's loss cost modification is -10%, a factor of Example 1:

.90 (1.000 - .100) should be used.

	er Name: Sentinel Insurance Company, Ltd.	Date:	1/14/20	
NAIC	Number: 11000 INSURER RATE FILING ADOPTION OF ADVISORY ORGA PROSPECTIVE LOSS CO SUMMARY OF SUPPORTING INFO CALCULATION OF COMPANY LOSS CO	ANIZATION STS RMATION FORM		
	Line, Subline, Coverage, Territory, Class, etc. combination to v	which this page applies:		
2. Lo A.	Loss Cost Modification: A. The insurer hereby files to adopt the prospective loss costs (CHECK ONE) Without modification (factor = 1.000) With the following modification(s). Cite the na supporting data and/or rationale for the modification 2.0%	ture and percent modific	-	attach
	See supporting exhibits			
	 Loss Cost Modification Expressed as a Factor: (See examples below.) 		1.020	
NOTE	E: IF EXPENSE CONSTANTS ARE UTILIZED, ATTACH "E	XPENSE CONSTANT SU	PPLEMENT	r" or
OTHE 3. De	E: IF EXPENSE CONSTANTS ARE UTILIZED, ATTACH "E: ER SUPPORTING INFORMATION. DO NOT COMPLETE ITION Development of Expected Loss Ratio. (Attach exhibit det supporting information.)	EMS 3-7 BELOW.		other
OTHE 3. De	ER SUPPORTING INFORMATION. DO NOT COMPLETE IT Development of Expected Loss Ratio. (Attach exhibit det	EMS 3-7 BELOW.	lata and/or	other ed
OTHE 3. De	ER SUPPORTING INFORMATION. DO NOT COMPLETE ITI Development of Expected Loss Ratio. (Attach exhibit det supporting information.)	EMS 3-7 BELOW.	data and/or	other ed
OTHE 3. De su	ER SUPPORTING INFORMATION. DO NOT COMPLETE ITI Development of Expected Loss Ratio. (Attach exhibit det supporting information.) A. Total Production Expense	EMS 3-7 BELOW.	lata and/or Selecte Provision	other ed ons
3. De su	Development of Expected Loss Ratio. (Attach exhibit det supporting information.) A. Total Production Expense General Expenses	EMS 3-7 BELOW.	data and/or Selecte Provision 16.3	othered
3. De su A. B.	Development of Expected Loss Ratio. (Attach exhibit det supporting information.) A. Total Production Expense General Expenses Taxes, Licenses & Fees	EMS 3-7 BELOW.	Selecte Provision 16.3 18.7	othered ons %
OTHE 3. De su A. B. C.	Development of Expected Loss Ratio. (Attach exhibit det supporting information.) A. Total Production Expense B. General Expenses C. Taxes, Licenses & Fees D. Underwriting Profit & Contingencies	EMS 3-7 BELOW.	Selecte Provisio 16.3 18.7 1.7	other ed ons % %
OTHE 3. De su A. B. C. D.	Development of Expected Loss Ratio. (Attach exhibit det supporting information.) A. Total Production Expense B. General Expenses C. Taxes, Licenses & Fees D. Underwriting Profit & Contingencies E. Other (explain)	EMS 3-7 BELOW.	Selecte Provisio 16.3 18.7 1.7	other ed ons % % %
3. De su A. B. C. D. E.	Development of Expected Loss Ratio. (Attach exhibit det supporting information.) A. Total Production Expense B. General Expenses C. Taxes, Licenses & Fees D. Underwriting Profit & Contingencies E. Other (explain)	EMS 3-7 BELOW.	Selecte Provision 16.3 18.7 1.7 2.5	other ed ons % % % % %
3. De Su	Development of Expected Loss Ratio. (Attach exhibit det supporting information.) A. Total Production Expense B. General Expenses C. Taxes, Licenses & Fees D. Underwriting Profit & Contingencies E. Other (explain)	EMS 3-7 BELOW.	Selecte Provision 16.3 18.7 1.7 2.5	other ed ons % % % % %
3. De Su	Development of Expected Loss Ratio. (Attach exhibit det supporting information.) A. Total Production Expense B. General Expenses C. Taxes, Licenses & Fees D. Underwriting Profit & Contingencies E. Other (explain) F. TOTAL	EMS 3-7 BELOW.	Selecte Provisio 16.3 18.7 1.7 2.5	other ed ons % % % % % %
3. De Su A. B. C. D. E. F. 4 A. E. 4 B. El	Development of Expected Loss Ratio. (Attach exhibit det supporting information.) A. Total Production Expense B. General Expenses C. Taxes, Licenses & Fees D. Underwriting Profit & Contingencies E. Other (explain) F. TOTAL Expected Loss Ratio: ELR = 100% - 3F = ELR in decimal form =	EMS 3-7 BELOW.	Selecte Provisio 16.3 18.7 1.7 2.5 39.2	other ed ons % % % % % %
3. De Su A. B. C. D. E. 4 A. E. 4 B. E. E. 4 B. E. E. 5. Co	Development of Expected Loss Ratio. (Attach exhibit det supporting information.) A. Total Production Expense B. General Expenses C. Taxes, Licenses & Fees D. Underwriting Profit & Contingencies E. Other (explain) E. TOTAL Expected Loss Ratio: ELR = 100% - 3F = ELR in decimal form = Company Formula Loss Cost Multiplier: (2B ÷ 4B) =	EMS 3-7 BELOW.	Selecte Provisio 16.3 18.7 1.7 2.5 39.2 60.8 0.608	other ed ons % % % % % %
3. De Su	Development of Expected Loss Ratio. (Attach exhibit det supporting information.) A. Total Production Expense B. General Expenses C. Taxes, Licenses & Fees D. Underwriting Profit & Contingencies E. Other (explain) F. TOTAL Expected Loss Ratio: ELR = 100% - 3F = ELR in decimal form = Company Formula Loss Cost Multiplier: (2B ÷ 4B) = Company Selected Loss Cost Multiplier =	EMS 3-7 BELOW.	Selecte Provisio 16.3 18.7 1.7 2.5 39.2	other ed ons % % % % % %
3. De Su	Development of Expected Loss Ratio. (Attach exhibit det supporting information.) A. Total Production Expense B. General Expenses C. Taxes, Licenses & Fees D. Underwriting Profit & Contingencies E. Other (explain) E. TOTAL Expected Loss Ratio: ELR = 100% - 3F = ELR in decimal form = Company Formula Loss Cost Multiplier: (2B ÷ 4B) =	EMS 3-7 BELOW.	Selecte Provisio 16.3 18.7 1.7 2.5 39.2 60.8 0.608	other ed ons % % % % % %
3. De Su	Development of Expected Loss Ratio. (Attach exhibit det supporting information.) A. Total Production Expense B. General Expenses C. Taxes, Licenses & Fees D. Underwriting Profit & Contingencies E. Other (explain) F. TOTAL Expected Loss Ratio: ELR = 100% - 3F = ELR in decimal form = Company Formula Loss Cost Multiplier: (2B ÷ 4B) = Company Selected Loss Cost Multiplier =	EMS 3-7 BELOW.	Selecte Provisio 16.3 18.7 1.7 2.5 39.2 60.8 0.608	other ed ons % % % % % %
3. De Su	Development of Expected Loss Ratio. (Attach exhibit det supporting information.) A. Total Production Expense B. General Expenses C. Taxes, Licenses & Fees D. Underwriting Profit & Contingencies E. Other (explain) F. TOTAL Expected Loss Ratio: ELR = 100% - 3F = ELR in decimal form = Company Formula Loss Cost Multiplier: (2B ÷ 4B) = Company Selected Loss Cost Multiplier =	EMS 3-7 BELOW.	Selecte Provisio 16.3 18.7 1.7 2.5 39.2 60.8 0.608	other ed ons % % % % % %

Example 1: Loss Cost modification factor: If your company's loss cost modification is –10%, a factor of

.90 (1.000 - .100) should be used.